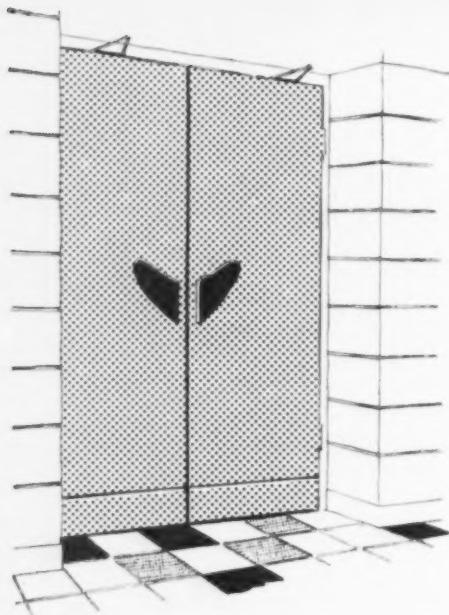


# The Architect



**buildings in Nairobi**

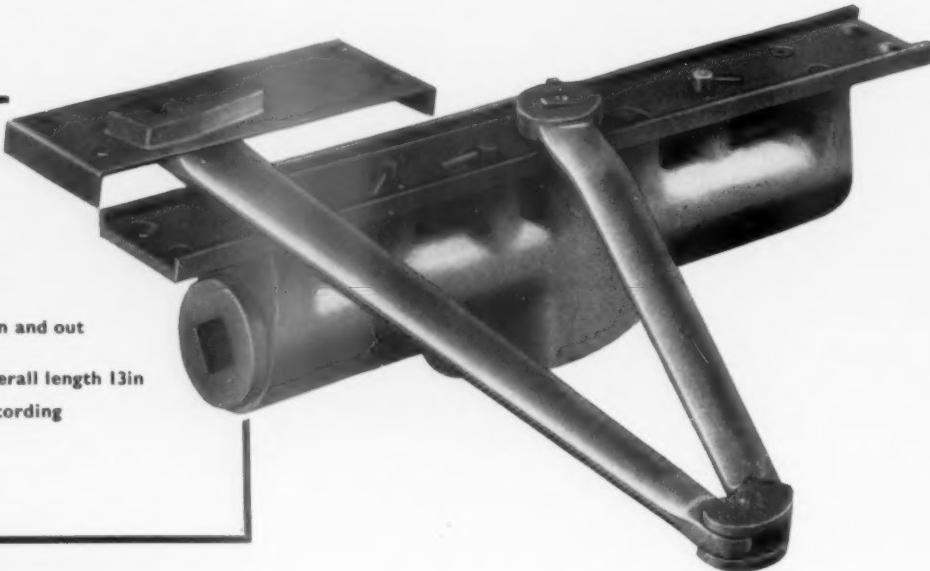


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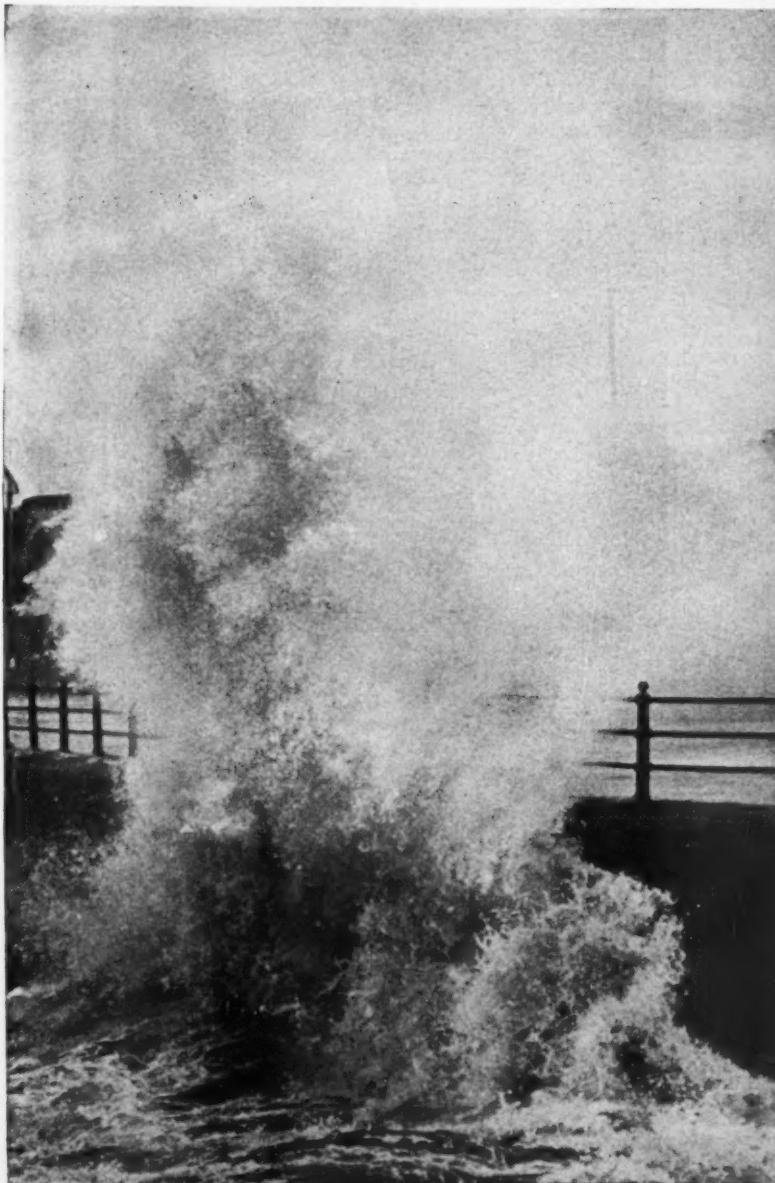
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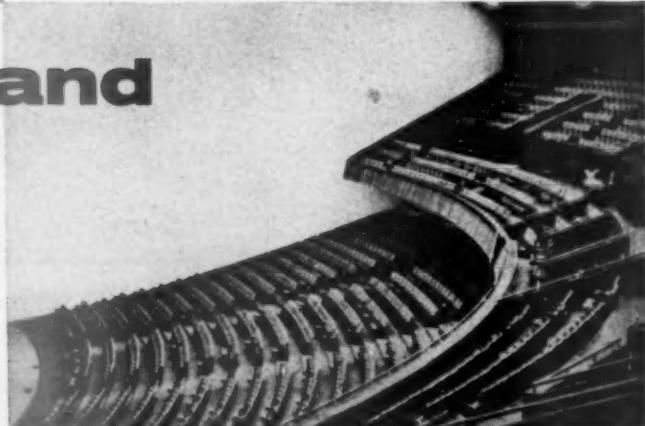


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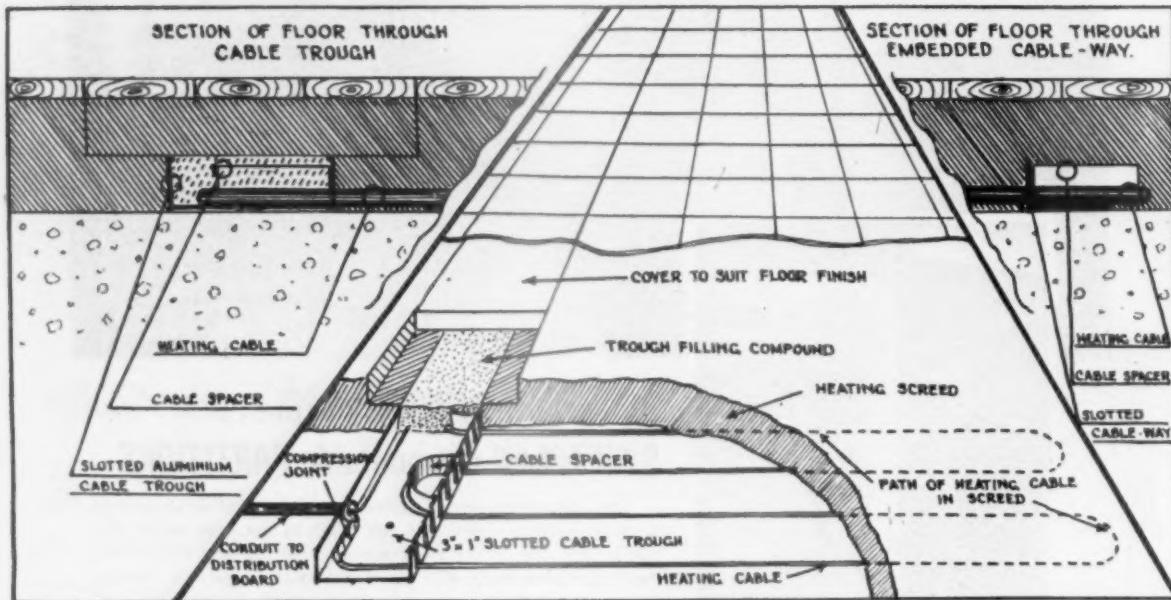


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thick fir plywood met all strength requirements with a minimum of framing. Thinner plywood was used as face lining on curves of smaller radius. Moreover, the plywood was re-used from six to eight times, and the contractors report that had longer time been allowed for the project, the plywood would have stood up under many more uses.

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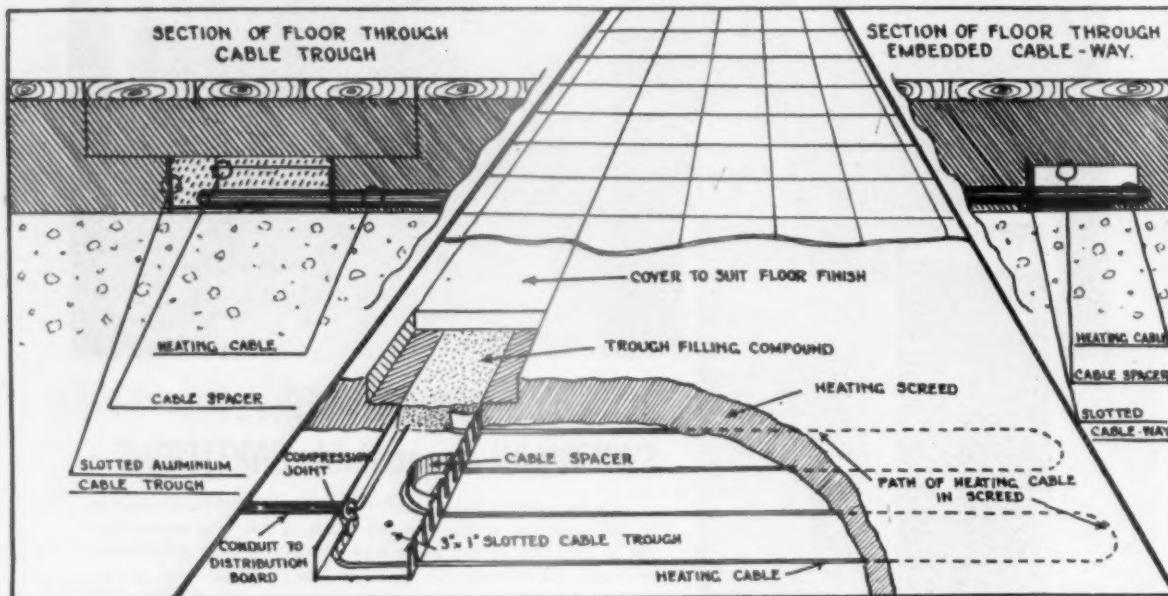


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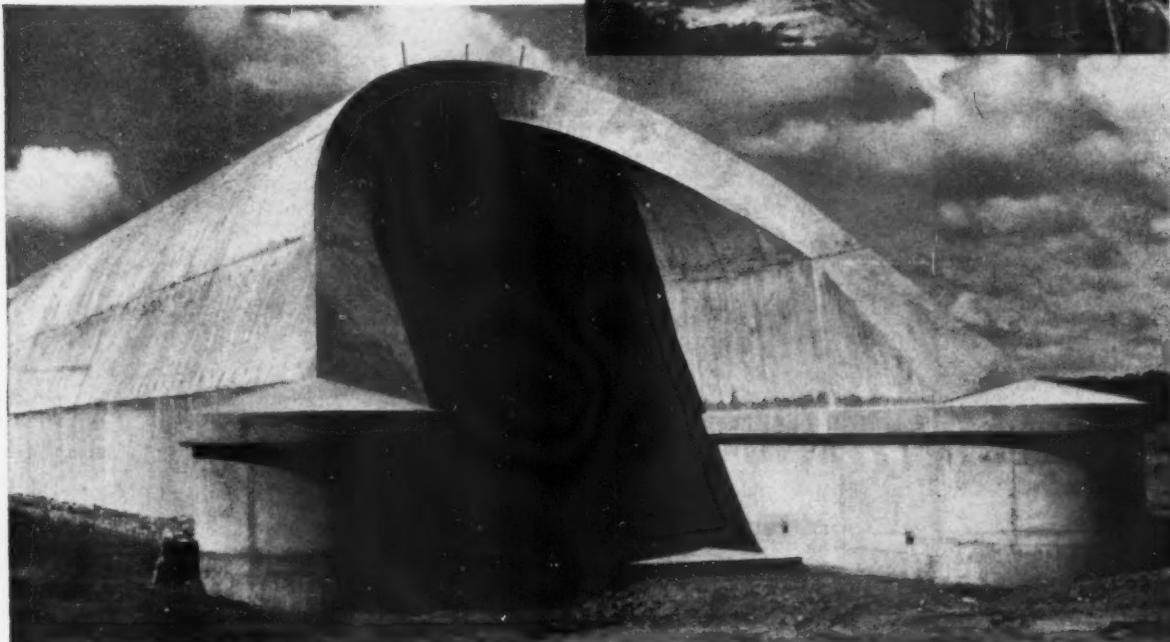
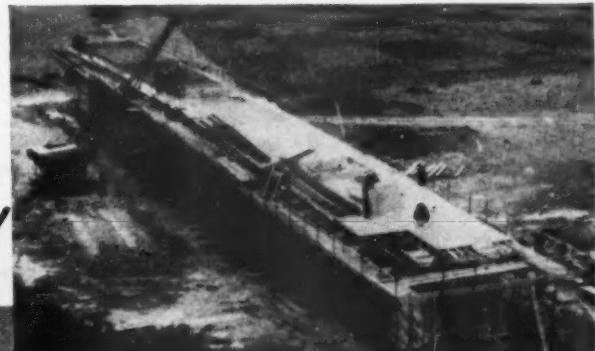
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# Getting down

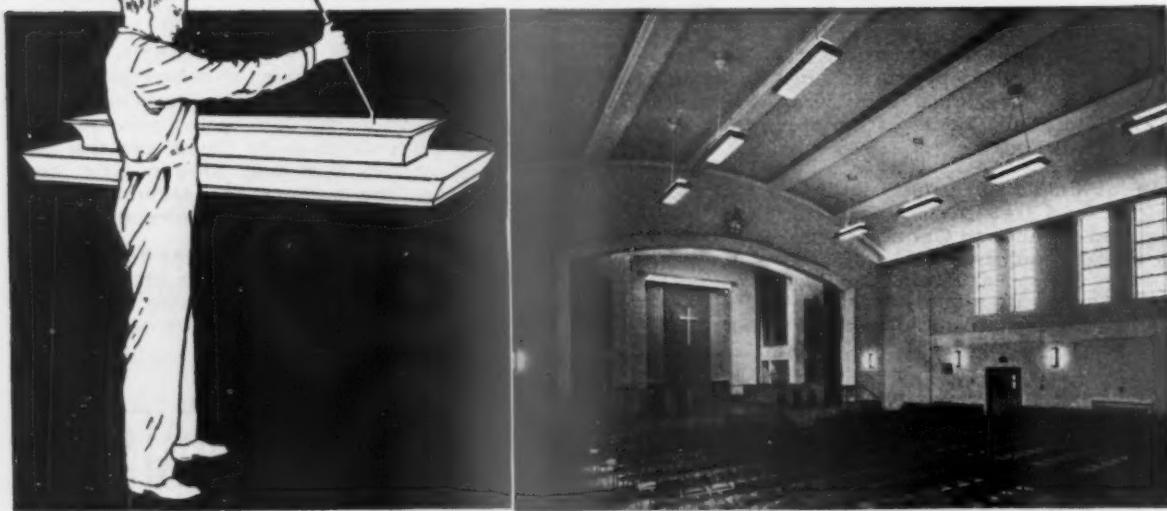
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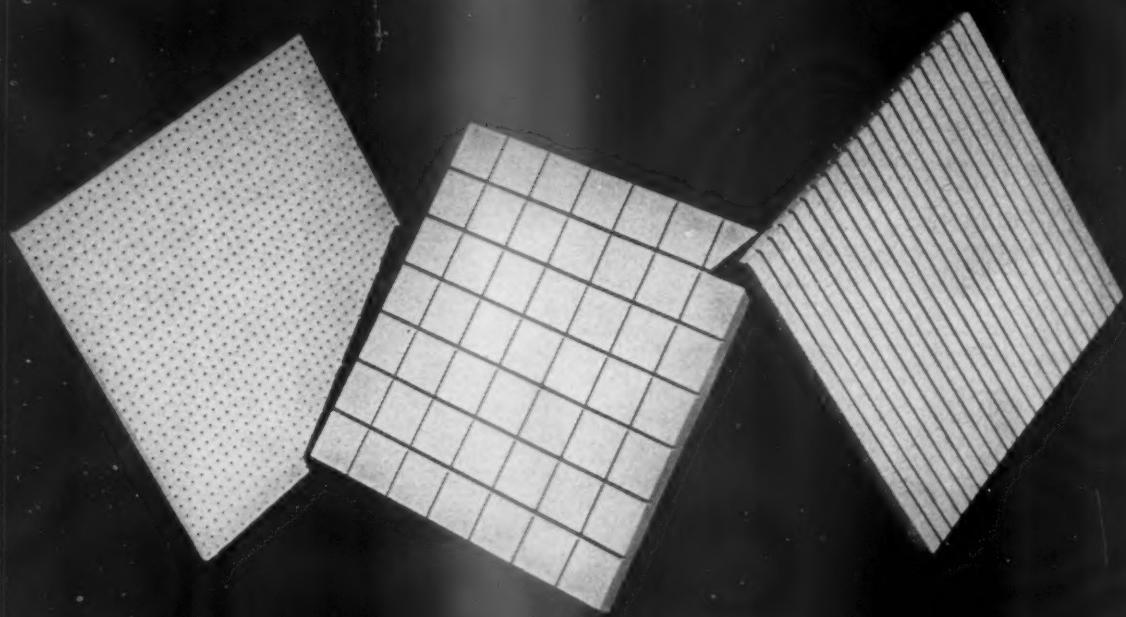
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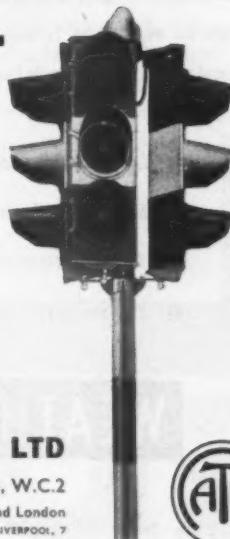
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# COLOUR

**the logical use of colour in building no. 4**

## **quality of daylight:**

It is now becoming generally known and, what is more important, appreciated that the source of light plays an important part in the creation of colour in rooms and in the external appearance of buildings. The new type of fluorescent lamp has emphasised — indeed forced attention upon — the careful selection of colours for buildings illuminated by fluorescent lighting.

At the same time it is not often fully realised that daylight — the most generally accepted form of illumination — does vary in quality, and although the variations in the quality of daylight in different places and different parts of the country are small, such differences may often play a decisive part in the selection of the various colours.

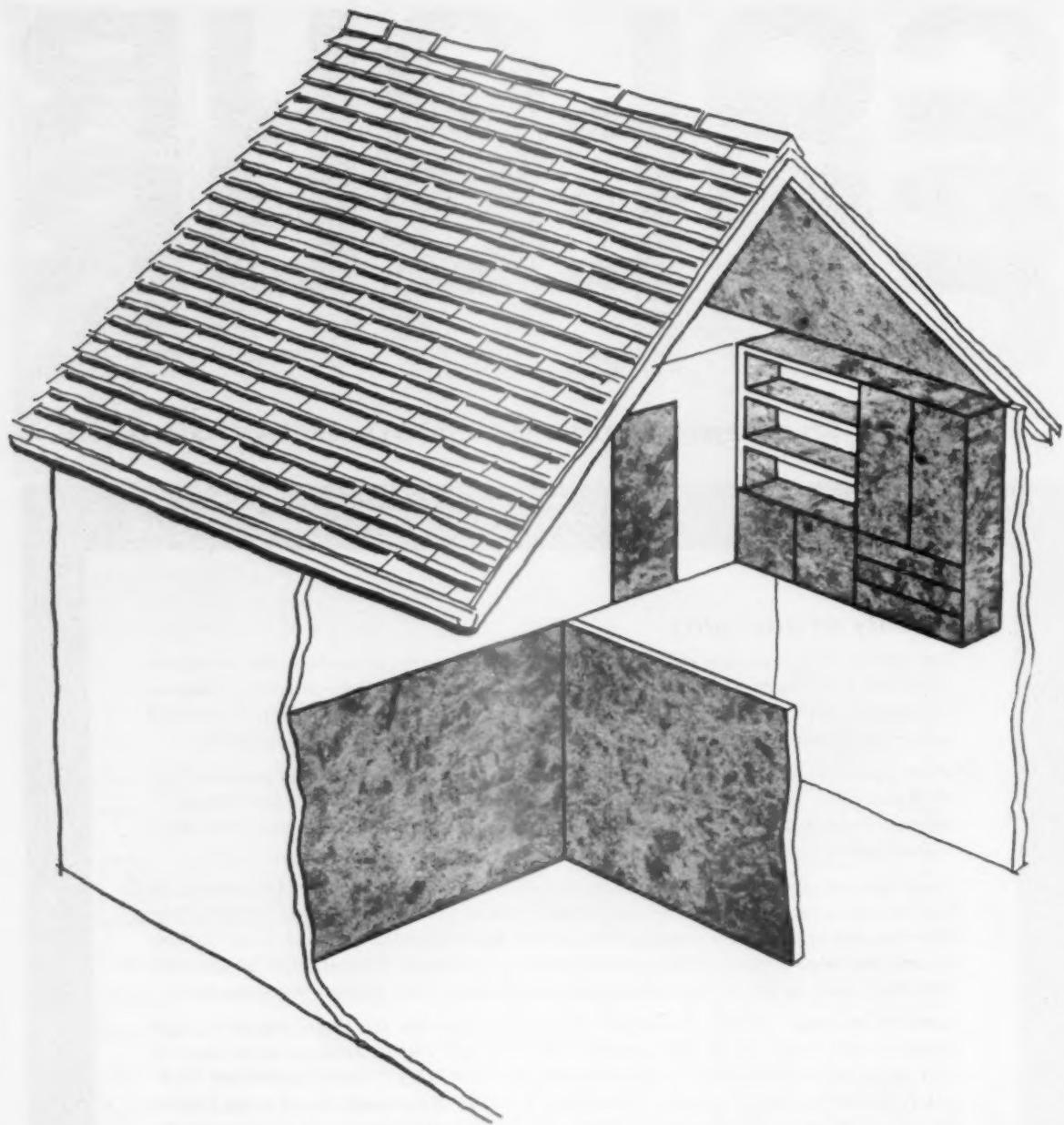
There does not seem any doubt that the daylight of the industrial north of England, particularly near the sea, possesses an excess blue component compared with the urban daylight of late afternoon and evening. The colour of the gentian flower sparkles in the south of England because the red component of this colour is reflected into the eye of the observer, whilst in the north the relative absence of the red component makes the colour appear lifeless and dull.

Generally the most suitable colours for the northern light are the pastel colours of high reflection value which can be used together with white and a whole series of greys, again of high reflection value. If interest is then obtained with small areas of strong colour then satisfactory decoration can be achieved. The choice of the hue of the pastel colour needs care in selection, but it has been found that the pastel reds and the yellow-reds do give pleasing results, although any basic colour, reduced as a pastel, can be used. In the south, on the other hand, the whole gamut of the colour range can be fully used.

The next announcement in this series will be on "Glare".

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# COLOUR



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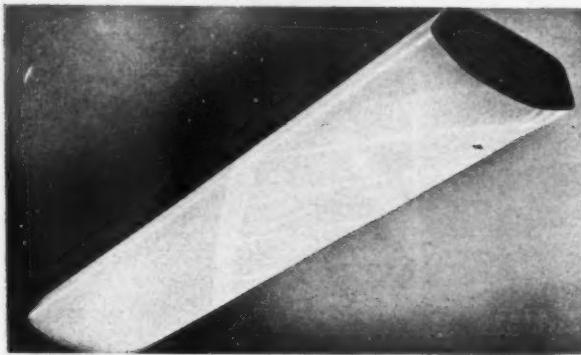
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## THE COUNTY RANGE OF FLUORESCENT FITTINGS

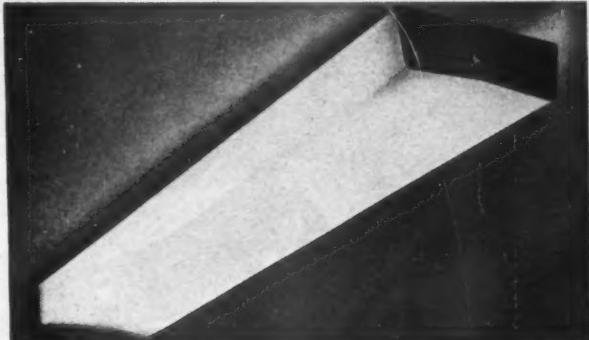


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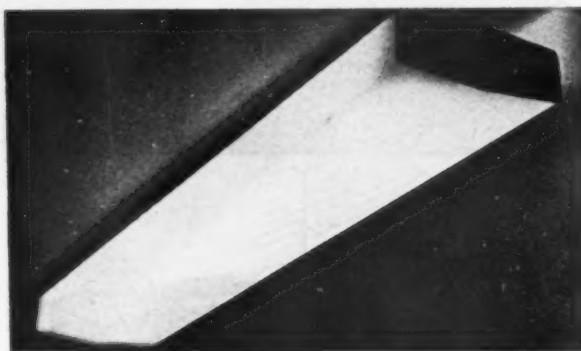
They are designed as diffusing fittings and not based on an industrial back spine, consequently the lamps and reflectors can be arranged to give maximum efficiency with a wide and shallow diffuser.

Fittings with clean and functional lines following the modern trend of interior design.

Opal perspex diffusers with black ends and practically invisible back spines result in high quality fittings reasonably priced.



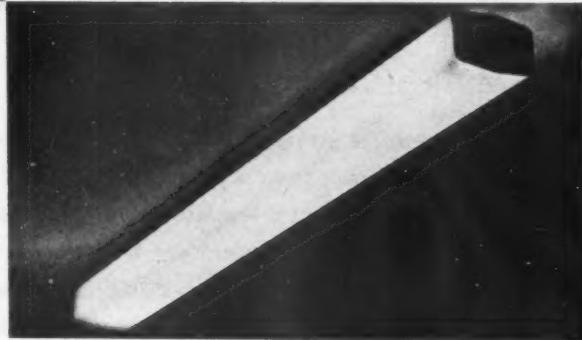
Essex



Sussex

Only the best materials are used in the production of the fittings including heavy gauge steel, perspex diffusers and reliable control gear.

Ease of maintenance has been an important consideration in the design of these fittings, the diffusers tilting off from either side for cleaning and lamp replacement. Access to control gear is from below.



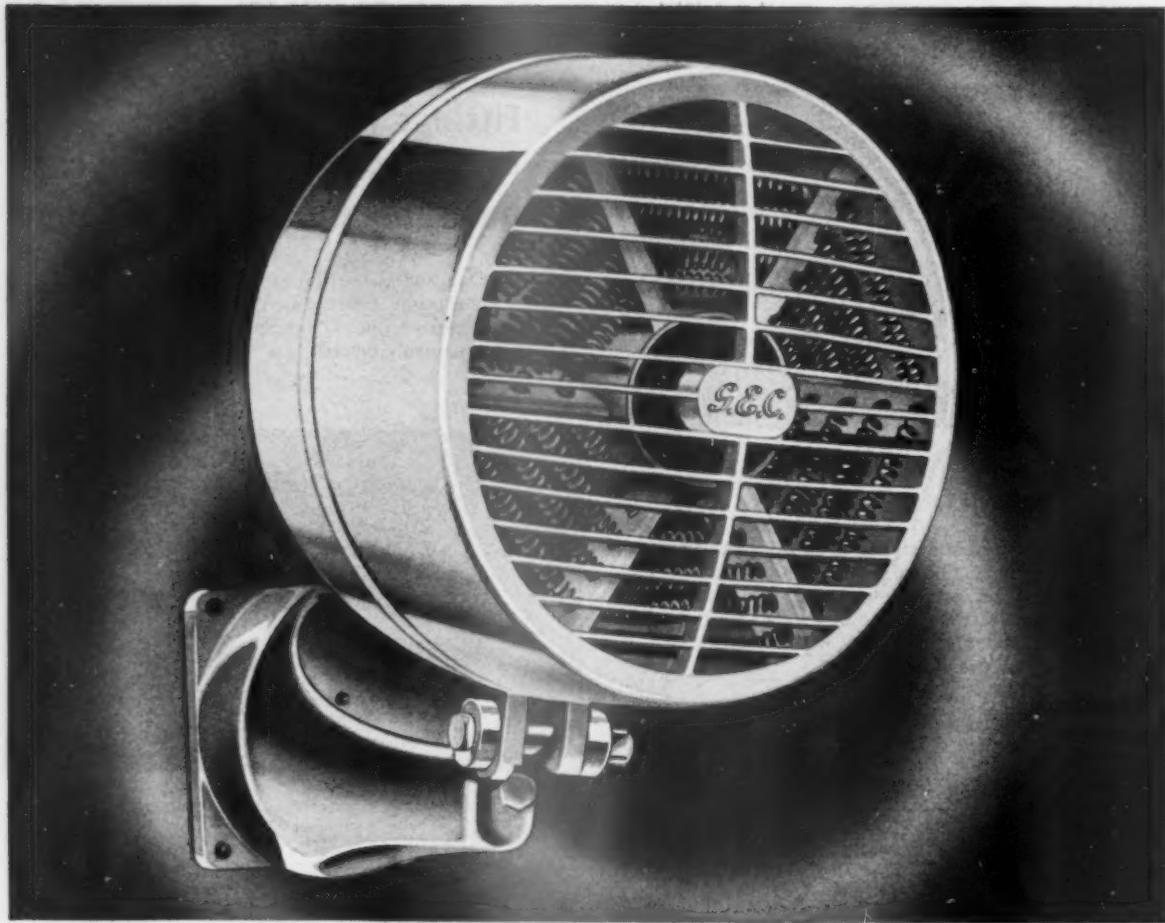
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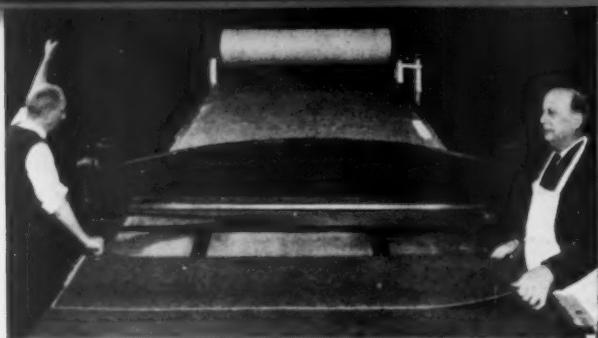
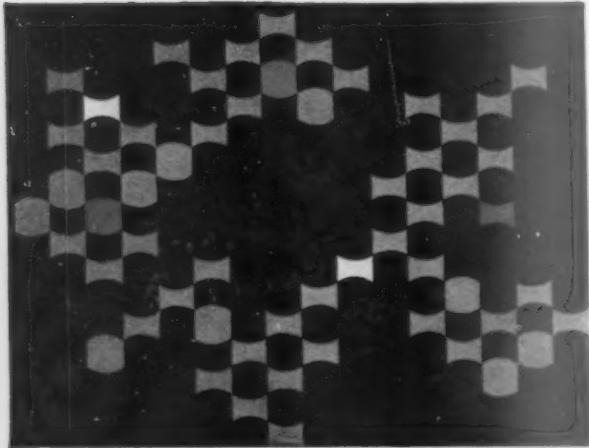
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*This is the second in a series of articles designed to interest and inform architects on the techniques and scope of linoleum opportunities open to them with modern linoleum floorcoverings.*

# linoleum contractors' techniques

To an increasing extent in the last few years, flooring contractors have cut linoleum into tiles instead of laying it in the form of sheet; some of them say that they use tiles for 90% of their work. This article explains some of the reasons for the change and suggests ways in which the architect can turn this new flexibility to advantage.

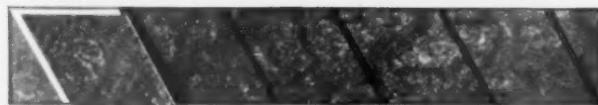
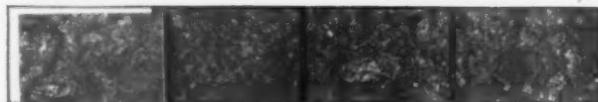
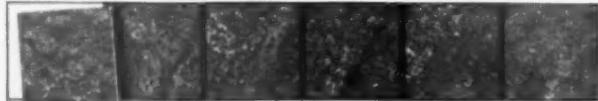
Linoleum in sheet form is still cheaper to lay when large unobstructed areas are to be covered; but when faced with complex outlines and central pillars, especially in cramped areas, flooring contractors have found that they can install tiles with very little waste of material, and at costs that are competitive with sheet linoleum. It is here that some knowledge of the contractors' techniques and working methods can help the architect to design interesting floors and still keep down costs.



Photos of guillotining and die-cutting: Courtesy E. J. Elgood Ltd.



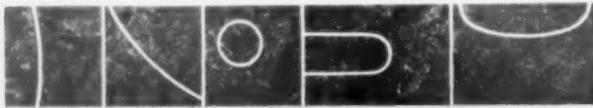
**Cutting tiles** The contractor uses a guillotine to cut 'slabs' of linoleum across the roll, wide enough to allow a small margin for trimming the tile later. The tiles themselves can be hand-cut by knife—a slow and expensive process—guillotined, or die-cut.



**Guillotining** Hand-operated or power-driven guillotines can cut squares, oblongs and triangles almost equally economically.



**Die-cutting** Some contractors have semi-automatic machines that cut tiles up to 18" square in one movement. These machines also accept special dies to cut other shapes—such as those below—simultaneously with the rectangular tile. (Both parts of the tile should be used in the design to minimise waste.) The design of such shapes should avoid running the shaped cutter into the corner of the tile, where it would create strong side pressures during cutting.





**Strip cutting** Lacing strips and border strips, in widths ranging from  $\frac{1}{2}$ -inch to 18 inches, are used to form decorative effects or borders. (For use as borders, they are cut slightly wide to allow for fitting to irregularities of the wall line.) The cutting machine slices almost through the thickness of the linoleum to make the strips, which are then finally separated as required by the layer on site.

**Economical tile sizes** Since linoleum is delivered in rolls 72 inches wide, contractors find the following sizes the most economical to cut:

NOMINAL: \* 9 inches, 12 inches, 18 inches, 24 inches, 36 inches.

\* Actual sizes are approximately  $\frac{1}{4}$ -inch less than the nominal sizes of all purpose-cut tiles.



IH SYMBOL DESIGNED BY RAYMOND LOEWY  
Courtesy International Harvester Company  
of Great Britain Limited

Architects: Albert W. Moore & Son  
Flooring Contractors: The Lino-Tile Co. Ltd

**Hand-cut motifs** Most contractors employ craftsmen who will enjoy reproducing in linoleum a motif like this one, laid in the entrance hall of International Harvester's offices in City Road, London.

**Repeated motifs hand-cut by template** For special purposes, the contractor can make a hardboard or metal template to cut out several motifs—and the corresponding spaces for them in the background.

#### NAIRN DESIGN BOOK

A full-colour book illustrating new directions in floor design will soon be available to all interested architects. If you would like to receive a free copy immediately upon publication, please write to: Michael Nairn & Company Limited, P.O. Box 1, Kirkcaldy, Scotland.

#### NAIRN MELOTONE LINOLEUM

The new range of colours of Nairn Melotone Linoleum, consisting of 8 muted shades with softly blended marking, is illustrated on the right-hand edge of this page, together with a selection of colours from the plain and marble ranges in 4.50 mm gauge. A large selection is also available in 6.70 mm gauge. Please write for information to one of the addresses below or consult your technical representative.

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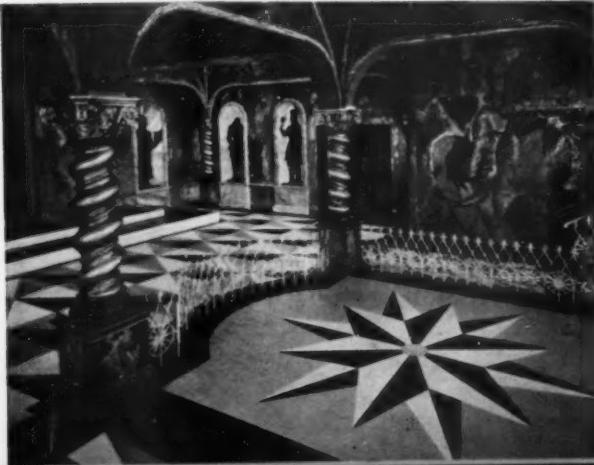


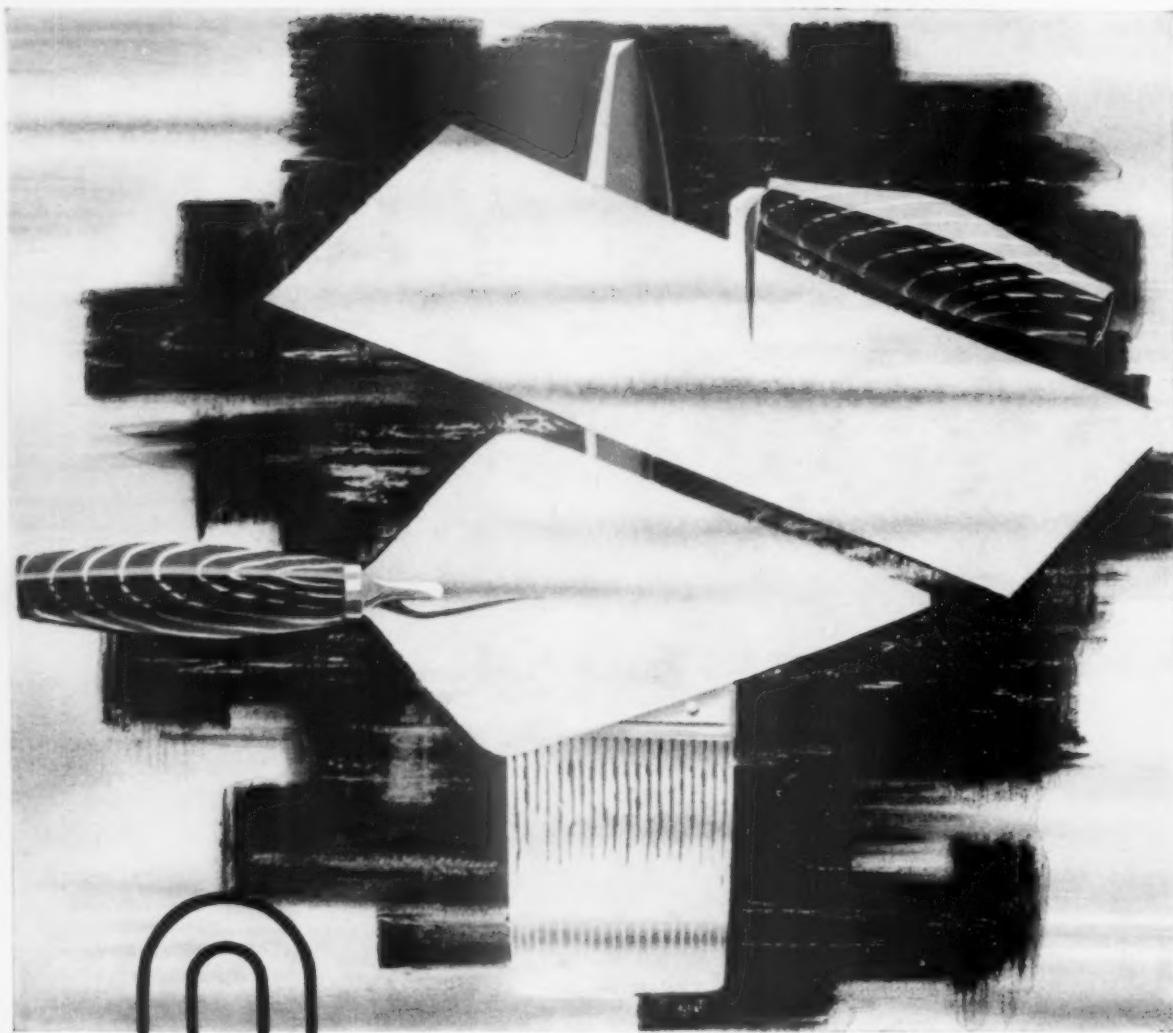
#### THE USES OF SHEET LINOLEUM

This article does not, of course, set out to show that tiles have entirely replaced the traditional way of laying linoleum in sheet form—even where the architect wants to introduce designs in his floor. Below are three ways of using sheet linoleum in individual situations:—

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# COAL

## Coal into energy at Kellogg's Stretford Factory

**Mr. E. Tomlinson,  
Plant Engineer, comments:**

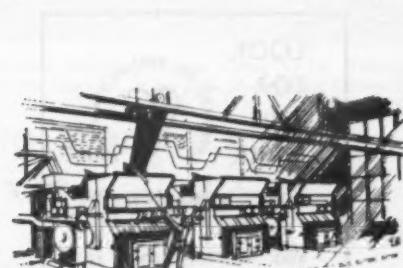
"Our processing plant operates continuously every week from Sunday night until Saturday morning, with an average load of 45,000 lbs. an hour, and intermittent peaks of up to 50,000 lbs. an hour. We have three water tube boilers, all operating on coal. Normal operation is with the largest boiler, fitted with an economiser, which maintains an efficiency of 83%, and one small boiler, without economiser, with an efficiency of 71%. The other small boiler is maintained as a stand-by; this is completely filled with treated water to prohibit corrosion and is available for immediate firing.

The original installation at Stretford was completed in 1937 when two water tube boilers were installed, both fired by chain grate stokers. Each boiler was designed to generate 17,000 lbs. of steam per hour, which was sufficient for operation of the plant.

In 1946 began a period of expansion and very soon both boilers were steaming continuously to provide sufficient steam for processing the growing output of various breakfast cereals. In 1950 a further water tube boiler was installed and, guided by the trouble-free service of the other two boilers, this unit was also fitted with a chain grate stoker for coal firing. Anticipating the Clean Air Act, we arranged to have grit arresters fitted to the new boiler and the two original boilers. Such was the growing demand for steam that the largest boiler was supplying steam to process before the official commissioning trials had taken place. This boiler was rated at 40,000 lbs. per hour and has been in continuous operation ever since, being shut down only for our annual holiday period when it is thoroughly cleaned and inspected.

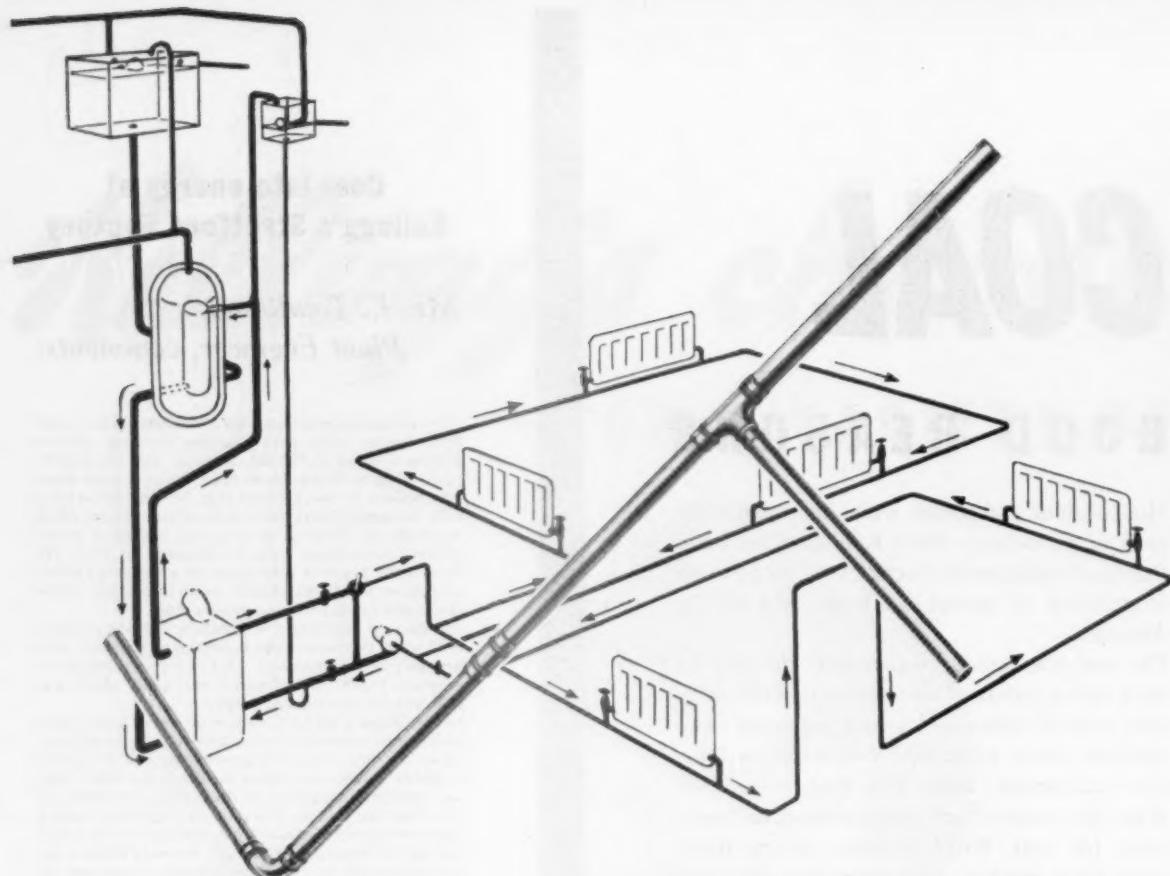
We expanded again in 1954 and when further modernisation plans were considered we found that the two original boilers could be rebuilt to meet modern demands. Today all three boilers continue to give us a first-class service.

Our decision to burn coal is based on the extreme reliability of the coal handling and firing equipment, together with the economic fuel cost."



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Method of firing:	chain grate stokers
Boiler efficiency:	80%
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Steam pressure:	165 p.s.i.
Steam temperature:	375 F
Annual fuel consumption:	13,500 tons of coal



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flooring made from 'Corvic' by Jas. Williamson and Son Ltd., in the Hobs Moat Branch Library, Solihull. The building was designed by C. R. Hutchinson, B.Sc., A.M.I.C.E., M.I.Mun.E., Borough Surveyor and Engineer. The flooring contractors were Korkoid Decorative Floors, Birmingham.

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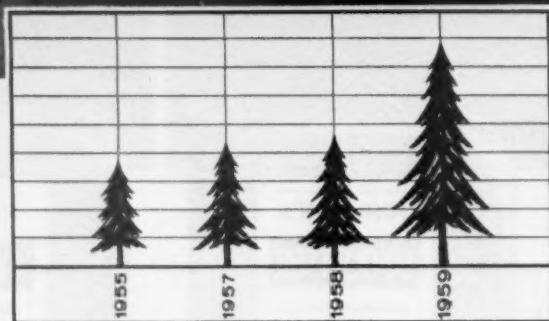
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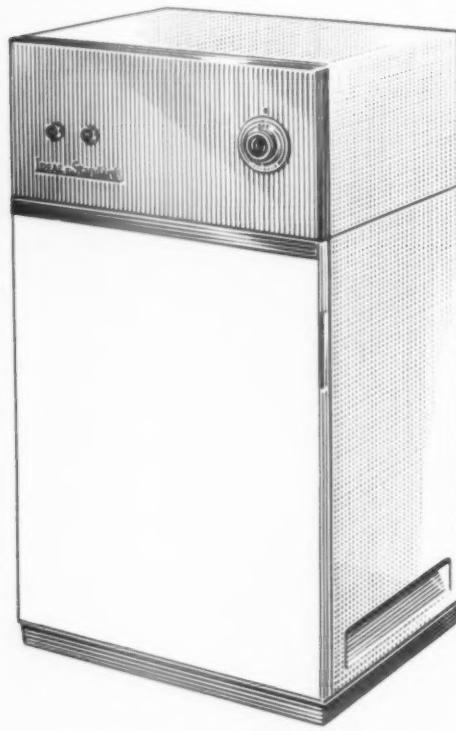
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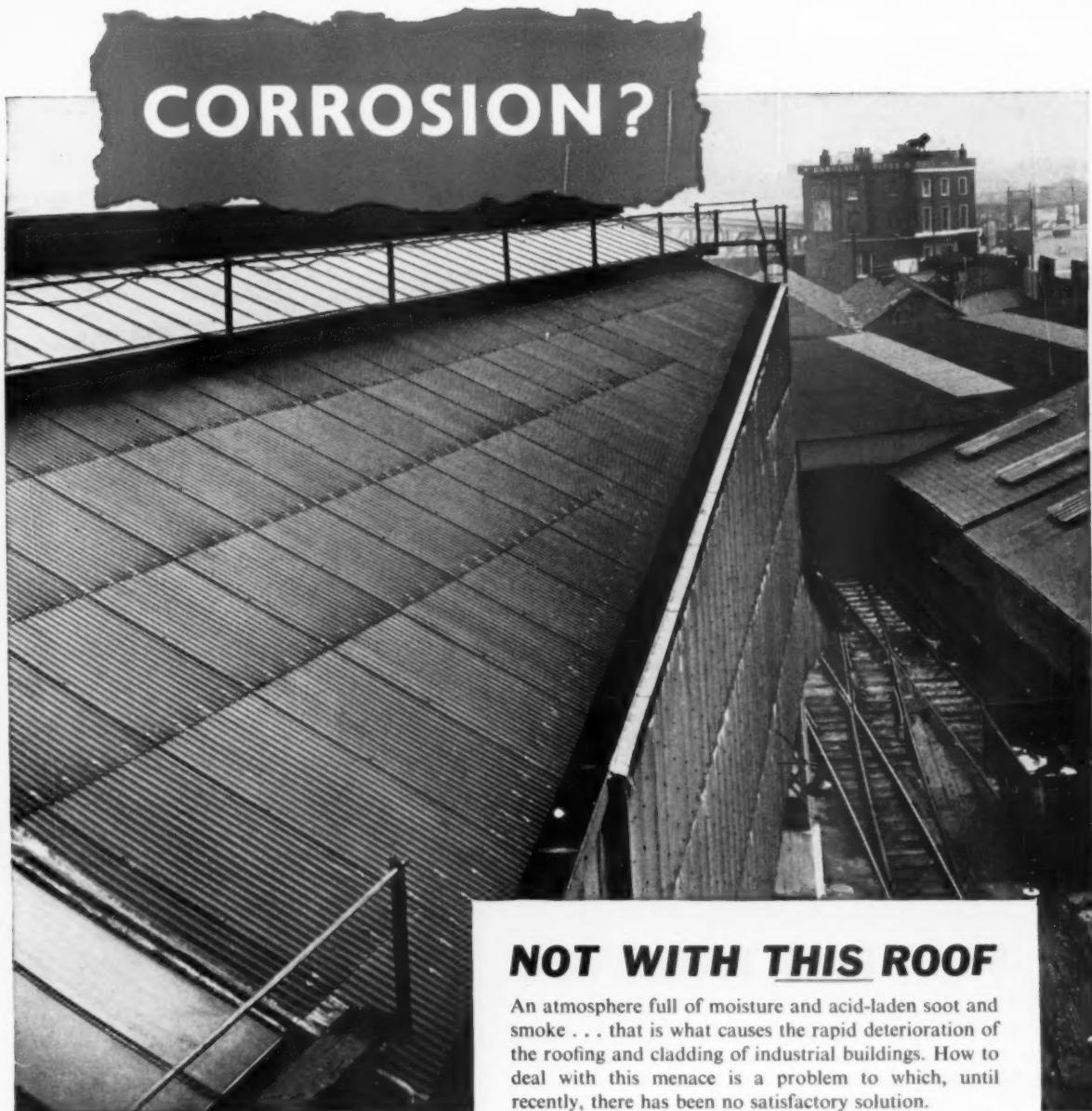
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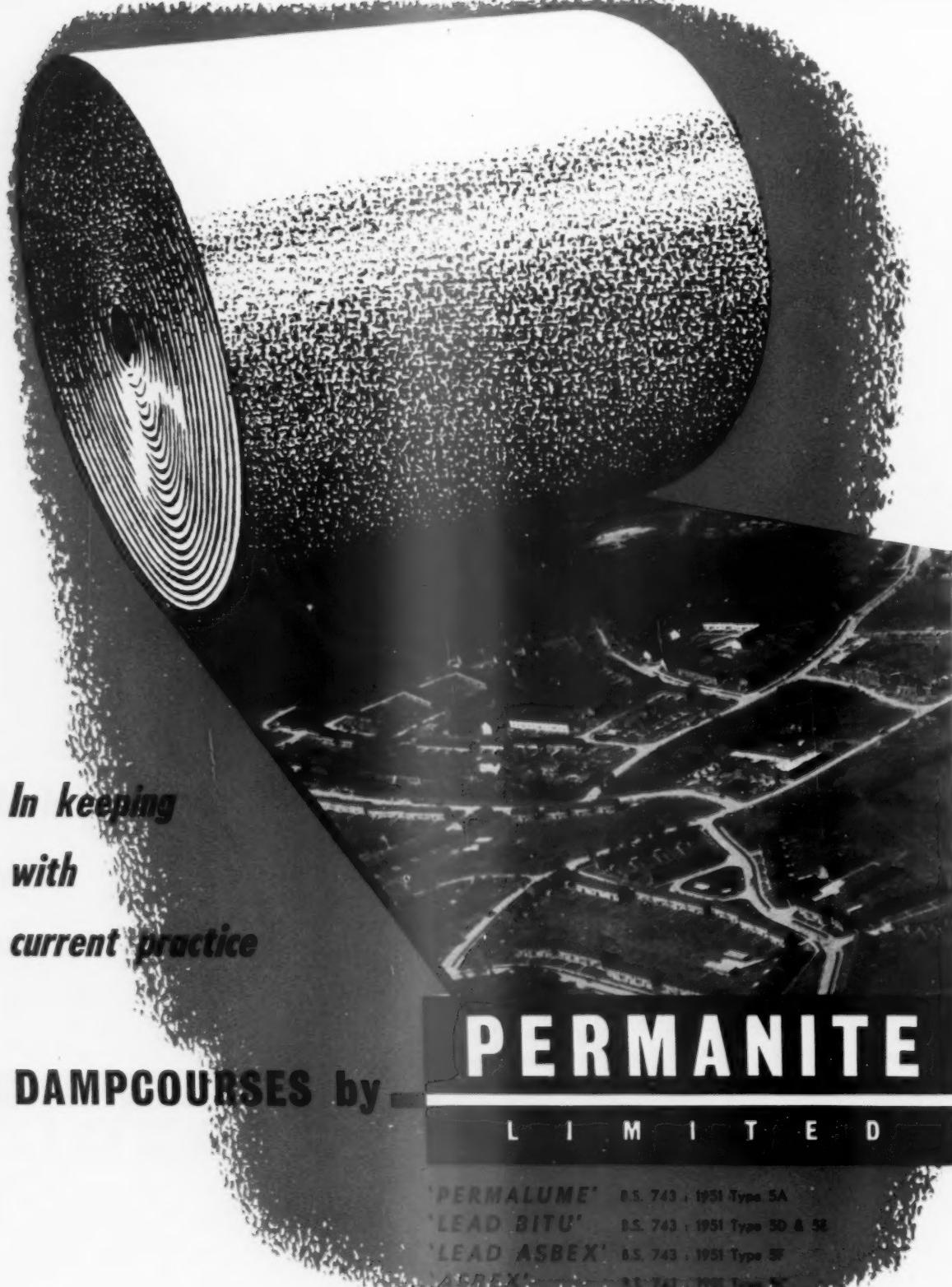


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## economic jitters

In the last few months there has been reported a sudden upswing of tender prices, amounting in some cases to as much as 10 per cent. This seems to have occurred in all parts of the country and to have taken place not only in building work but also in civil engineering.

Informed opinion suggests that this sudden movement after a fairly long period of comparative stability is largely due to the sudden brake applied to a booming economy by the Chancellor with his double increase of bank rate coupled with a stiffening of overdrafts.

The industry has long held the view that tenders were artificially low and represented an unhealthy relic of the previous credit squeeze which resulted in a shortage of building work. Contractors began to cut their tenders in an attempt to secure jobs and, once having got into the habit, they stuck to it regardless of the fact that, in many cases, they had more work than they could conveniently cope with.

Now, everyone is faced with difficulties in getting overdrafts and extra expense in servicing them, and this may have helped the move back to realistic tendering. The result has been the reported sharp increases. There is, of course, too, the seasonal shortage of building materials which influences prices.

What is the lesson of all this? Perhaps it is quite simply that the building industry, like all other industries, needs a stable economy if it is to function efficiently over the years. The annoying series of fits and starts, of minor booms and minor crises, that we have suffered from since the war may be better than the pre-war slumps, but it is by no means a satisfactory state of affairs.

Surely it is not beyond the wit of economic planners to produce a steadier climate which would enable manufacturers to plan production programmes for years ahead and, by rationalization of methods and economy of storage, to reduce their prices? The same is true on the constructional side. The nation cannot afford to have expensive plant, such as road making machinery, idle for months at a time just because a steady flow of work has not been planned; or to have sudden fluctuations of activity in state-aided housing, hospitals or schools. We must simply get better at planning ahead.

On the Cover:  
Access balconies, classroom block,  
Royal Technical College, Nairobi

### **Hardly architecture**

Although I was once devoted to the works of Red Nichols and his Five Pennies and Jelly-Roll Morton and his Red Hot Peppers, no-one would describe me today as a jazz fan. I do not think that I could give the name of one current hit tune. From time to time, however, my house is filled with hordes of curiously garbed teenagers holding a party, which usually ends with a crowd of strange faces at the breakfast table. I try to be out on these occasions, partly because they make me feel very, very old, and partly because I dislike being woken by cheerful voices welcoming the dawn at 4 a.m. Bearing all this in mind it was perhaps odd that I should have been present at the Beaulieu Jazz Festival on the opening night.

We met the first parked car some half-mile from the Abbey and from then on it was a crawl. In the village street some Anti-Nuclears had set up a collecting station. A boy in a battered bowler put his head through the window of the car. "Are you in favour of nuclear disarmament sir?" "No," I replied. The boy looked stunned. "You're not? Oh!" and he passed on.

\* \* \*

By the time we arrived at the ground all the car parks were full. A cheerful group of white-coated officials who appeared to be going home, invited us to park anywhere we liked. We drove nearly half a mile into the woods and walked back to join a queue several hundred yards long waiting for admission.

On our way through Beaulieu we had wanted to buy some bread, but the bread shop is also an off-licence, and there was a long trail of young people waiting to carry away drink—four bottles of hock, a crate of light ale or a gallon jar of cider. It was obvious that for quite a number this was not their first drink of the day.

Traditionally at the festival the bands play against a background consisting of a dismembered roundabout. This year the BBC were there with three TV cameras and a great many lights carried on scaffolding towers. Further scaffolding screens carried lights and some of the wooden horses from the roundabout fixed between 20 and 30ft from the ground. The audience occupied the centre of an arena formed by the lights and it was a gay and jolly scene.

Many of those present were in pairs and they came from every stratum of society. Most were well behaved, but a small number were rather tight. The clothing was extraordinary. One girl had a lighted candle tucked in her hat; somehow it remained alight all the evening. At least two young men were dressed, or more correctly, partly covered in skins. There was hardly a skirt to be seen. Black hair to the waist or bright pink in a pom-pom was equally correct. Some had the highest heels to their shoes while many had no shoes at all. One boy wore a sweater the sleeves of which dragged along the ground as he walked. There were hundreds of battered toppers.

\* \* \*

A great number of empty bottles found their way underfoot and although wire baskets had been provided for them, few people bothered to use them. There were piles of broken glass in no time. This was bad for the bare-footed. The band played and everyone appeared to be happy. However, it was pretty clear as the crowd increased, that a better view of the proceedings could be obtained from the scaffolding screens flanking the bandstand, and the wooden horses offered a challenge which the gayer sparks could hardly ignore. It was not long before someone climbed on to the back of one of them, rocking it back and forth perilously to the music. This was a sign to others

and soon most of the horses had riders and the lower rungs of what was only a very light tubular screen, were covered with people.

The band stopped playing and a voice, it may have been Lord Montagu's, asked the people to get down as it was dangerous. After a bit, and good deal of shouting, the scaffold was cleared and the band went on. There were, in fact, several bands, but the noisy part of the audience seemed only to be concerned with a certain Mr. Aker Bilk, who, with his band, had not yet appeared. A section of the crowd started shouting "We want Aker". The scaffold once more became crowded. Officials and voices, now considerably disturbed, appealed and cajoled without much result.

\* \* \*

About this time a young man appeared on one of the pinnacles of Beaulieu Manor itself, high above the arena. The crowd liked that, and more people climbed on to the scaffold and on to the trees all round. The festival came to a stop. There was considerable danger, said a slightly tremulous voice. The people must come down or the festival could not go on.

There was shouting, cheering, counter-cheering, and a good deal of agile exhibitionism from the gentry on the scaffold. Things were thrown at them, but they paid no regard and revelled in providing the TV cameras with targets. It was not long before someone managed to climb to the top of the roundabout immediately over the band. He was quickly followed by others.

By now there were a dozen on the roundabout waving flags plucked from the decorations. The band had been playing again, but the crowd invaded the platform from the rear and were now pressing against the performers, so that they were driven to the very edge of the stand. Mr. Bilk was still much in demand. Appeals to the rowdies—one or two of whom appeared to be trying in the most cheerful manner possible to break the place up—were of no use at all. Officials could be seen wildly gesticulating and for a long time there was no music.

\* \* \*

Suddenly someone found the main switch and all the lights went out. The roundabout and the scaffolding were shaking like jellies. Something had to go soon. The lights went on again and once more a band played. It played a slow beat which seemed to incense the rowdy part of the audience who, pressing even closer forward, broke through the linked arms of people trying to keep them away from the musicians. It seemed that soon the place would be wrecked. Lord Montagu promised that Bilk was coming, and, perilously, through the crowd, drove a charming model-T Ford bus from the Motor Museum. The anxious faces of Mr. Bilk and his band peered from the windows. In no time several people climbed on the roof.

As soon as Mr. Bilk's boys began to play, the riot got worse and it seemed that the audience wanted to eat them rather than listen to them.

Then, slowly and sickeningly, the scaffold gave way. It could carry no more. The arc lights on it went out and it subsided like a crashed Zeppelin. For a moment there was silence as ambulance men pressed forward. The steady trickle of people towards the exit increased at once to a thick stream. A man carried a half-conscious girl to the first-aid tent and a party of shocked young men passed by with one of their number senseless on a stretcher. This sobering incident which, fortunately, caused no serious injuries was very quickly forgotten and the row went on.

Mr. Bilk would play, said the loudspeakers, miraculously preserved from damage, if the audience would get off the stage. The audience did not. We left to the wailing of the

siren calling out the Beaulieu Fire Brigade. As we walked away, a calm BBC voice took over. It spoke for the technicians working the TV installation. They, too, wished to hear Mr. Bilk; their very valuable equipment was in danger; if the people on the roof of the roundabout did not come down the technicians would come and fetch them. They came down. We were told afterwards the Festival proceeded. As we left the grounds of the house, a bearded and barefooted individual was trying to take one of the roundabout horses home with him.

\* \* \*

It was all rather sad for those who paid 12s 6d to get in. They came from all over the country, hitch-hiking, on bicycles and in cars, many of doubtful roadworthiness. They camped in their hundreds in Lord Montagu's grounds like pilgrims, all but a few came, not for a riot, but to listen to jazz and to meet their friends and to dance. It was not their fault that the organization broke down. Clearly, the management was caught out by the vast numbers brought as a result of wide publicity.

Very little appeared to have been done to control crowds. There was too much alcohol about and too few order-keepers. This festival must be three days of misery for the inhabitants of Beaulieu. Lord Montagu has said that this may be the last session. Certainly it will have to be better controlled. To protect the performers, I suggest that he puts them on a platform in the lake.

What, you may ask, has all this to do with architecture? Not very much, I admit, but architects have teen-age children who like jazz. I know because I met the children of six architects at the festival.

#### **Cambridge scheme turned down**

Cambridge, I am told, has from time to time turned down the work of leading architects right back to the days of Hawksmoor. Sir Hugh Casson, Neville Conder and Partners are the latest to suffer. Their scheme for the Lady Mitchell Hall, the next stage of their development on the Sidgwick Road Site, has been rejected by the Regent House by 109 votes to 82. The design was illustrated in a 1960 Academy drawing, reproduced in the A. & B.N. on May 4. At the time I wrote that it was one of Sir Hugh's very best drawings. I also said that Sir Hugh and his partners had adorned the roof of the lecture hall with what I could only describe as the fins of a shoal of basking sharks. They certainly broke up the skyline, but their real purpose was not easy to discern from the drawing.

*The Times* points out that the development plan for the whole site was approved by the University in 1954 but the detailed designs of the successive building are subject to Graces of the Regent House. When the designs for the Hall were first submitted they were severely criticized in discussion. The architects replied in the *Cambridge University Reporter*, but the objectors gave notice of *non placet* in a fly sheet which described the scheme as "the nadir of the development to date". It criticized the architects for the value they had put on "a highly irregular plan and a supposedly picturesque clash of conflicting shapes". In the voting it appears that the two sides showed unusual groupings. Those who supported the scheme included both those who habitually vote for established authority and those who champion contemporary architecture. The objectors included not only confirmed traditionalists but some normally progressive people.

Everyone, including the architects, is wondering what happens now. This *non placet* business is reminiscent of, but doubtless, of greater antiquity than, the perhaps more familiar "*niet*" in another place. It seems to me to be a very curious way of carrying on, particularly when the majority against the scheme was so small. I should have

thought that having appointed a distinguished firm of architects the authorities should let them get on with the job.

#### **Blackbushe Airport**

It is not very long since Blackbushe Airport, near Camberley, was a centre of charter-company flying, trooping, and, in bad weather, diversions of major airlines. Too close to the ever growing Heathrow, it had to be closed.

Usually, deserted airfields remain with all their buildings to litter the earth while pilferers remove anything of use. Blackbushe is different. Everything fixed or moveable has been sold. Some of the hangars have already disappeared; others are being dismantled. Other sectional buildings have been carried away and those of traditional construction are being demolished. It is really a very creditable performance. Why, I wonder, could this not be done for the derelict wartime airfields which litter the countryside? Why should it be left to volunteers and the Civic Trust? Why cannot the services clear up after themselves?

An article in *The Times* last week by a former RAF chaplain spoke of the nostalgia experienced when he visited one of his old stations now inhabited by European fruit pickers. Nostalgia, however, is not enough. Is it not time the Government voted money to tidy them up?

#### **Daylight with insulation**

Pilkington Brothers have published a superb piece of printing with the title *Daylight with Insulation* by their staff architect, Thomas Markus. It is a tremendous eye-catcher, with pages of colour plates, diagrams and a shiny cover (with a matt inset for writing in your file number). My first reaction was to try to guess what such a publication cost. My guess is at least £2 a copy. What does it contain? A good many simple diagrams and an equal number of pretty technical calculations on the subject of double and multiple glazing. It is in one a picture book and a piece of trade literature. It seems to fulfill both roles very well but is so much expense really justified? Only Pilkingtons can answer that. They do not normally do foolish things.

**ABNER**

Anxious-looking architects delivering their designs for the Liverpool Cathedral competition last week



### Competition: Trinity College library

The design of a new library at Trinity College, Dublin, will be open to international competition. A site has been found in a central position in the college grounds and adjacent to the present library, which is the oldest and largest in Ireland and one of the great libraries of Western Europe—it was completed in 1732, houses nearly 1,000,000 books and is visited by about 100,000 people each year.

It is hoped that the new library will be an expression of contemporary architecture adjusted to the existing Georgian and Victorian buildings. Estimated cost of the proposed building is £500,000.

The competition will be open to all architects who are members of a recognized architectural institute or society, and entries will be accepted from firms or other associations of architects formed for the purpose of the competition.

Assessors: the Earl of Rosse, Vice-Chancellor of Dublin University; Signor Franco Albini, Professore of Interior Architecture, Furnishing and Decoration at the Institute Superiore di Architettura, Venice; Sir Hugh Casson, Mr. Raymond McGrath, Principal Architect of the Office of Public Works, Dublin, and Mr. K. DeWitt Metcalf, American Library Consultant, formerly Director of Harvard University Library.

Premiums: £1,500; £1,000; £750. Last day for registration: August 31. Last day for questions: September 30. Last day for dispatch of designs: March 1, 1961. Conditions available from Competition Registrar, Trinity College, Dublin (deposit £5).

### Industrial art bursaries competition

A record sum of £5,375, £1,000 more than last year, is offered in prizes for this year's Industrial Art Bursaries Competition organized by the Royal Society of Arts. The prizes take the form of travelling bursaries, in most cases of £150 each.

The competition is open to students attending an art, architectural or technical college, and to others who intend to take up industrial designing as a career.

Bursaries are offered as follows: Advertising design (new section) (four bursaries of £200, £175 and two of £150 respectively); carpets; domestic electrical appliances; domestic solid fuel burning appliances; dress textiles (five bursaries, one of £250, three of £150 and one of £50); electric light fittings; exhibition display (new section); film, stage and television settings (three bursaries); flat glass decoration; furnishing textiles; furniture (seven bursaries); laminated plastics; packaging; pottery; typography; wallpaper; women's fashion wear, including footwear (three awards, one of £200 and two of £150 respectively).

In addition, a number of supplementary awards are available from the Art Congress Studentship Trust, the Owen Jones Memorial Trust, and the George M. Wiley Fund.

Closing date for entries is October 10, 1960. Inquiries should be addressed to the Bursaries Officer, Royal Society of Arts, John Adam Street, Adelphi, London, W.C.2.

### CLASP system for West Germany

British schools are to be built in West Germany, it was decided at a meeting of the Board of Chief Architects of the CLASP consortium of local authorities and Government departments, held in the United Kingdom Primary School exhibited at this year's Milan Triennale.

The Board endorsed arrangements already negotiated between representatives of West Germany and the United Kingdom. These provide for the formation of a company in West Germany, who will take over from the CLASP consortium all the working drawings and information sheets on the system. The CLASP consortium will also advise the West German company on the use of the system, and reciprocal arrangements have been made for the exchange of information about all future developments, whether

they originate in the United Kingdom or in West Germany.

In return for making available "know-how" on the use of the system, the consortium will be paid a percentage of the gross income of the West German company, to the benefit of both the ratepayer and taxpayer. This will be received through the British Ministry of Education, who are to ratify the agreement in an exchange of letters with the West German Government. The agreement will be for an initial period of 15 years. The West German company will work in close association with the British firm of John Brockhouse and Co. Ltd., the manufacturers of the steel frame which is basic to the system.

Based on a system of construction pioneered by the Nottinghamshire local education authority, originally for use in building schools in areas subject to mining subsidence, the CLASP consortium is now being used for a wide range of buildings on normal as well as subsidence sites. The system was chosen for the United Kingdom Primary School exhibited at this year's Milan Triennale as an outstanding example of the new systems of construction developed in Britain under the post-war school building programmes.

Members of CLASP are the local education authorities for Nottinghamshire, Derbyshire, Yorkshire (West Riding), County Durham, Glamorgan, Lanarkshire, Coventry, Leicester and Gateshead, together with the War Department, the Scottish Education Department and the Ministry of Education.

### Edinburgh students attack "shoddy building"

Edinburgh house-builders are accused of an "almost medieval" approach to new techniques, resulting in

This sculpture by Heinrich Adolis, which stands in front of the Essen Professional Academy for Women, Western Germany, has come to be known as 'The Gossips'; a touch of male humour which the women have taken in good part



"shoddy, third-rate building" throughout the city, in a report by *Subtopia Attack*, a society formed by Edinburgh Students' Architecture Group.

The society, which is holding its second exhibition at Gardners Crescent, Edinburgh, to arouse public interest in the city's appearance, states that there are three reasons for poor building in the city.

"Firstly, builders are ultra-conservative in their approach to new techniques. Secondly, the typical separate houses and 'semis' represent a small initial investment; they can be built a few at a time and sold off, and this shoestring budget approach ensures maximum profits for the firms.

"Thirdly, the builders believe that they are giving the public what it wants; this is absurd, because the public can only have what is there, and as in Edinburgh there is nothing but shoddy, third-rate 'spec' building, the public has no choice."

The students group wants Edinburgh Corporation to call in an architect of national repute to review all building schemes in the city.

#### New town at Caersws?

Mr. Henry Brooke, Minister of Housing and Local Government, is considering a proposal for a new town of 50,000 inhabitants near the village of Caersws, Montgomeryshire.

A conference attended by representatives of Birmingham overspill committee, Mid-Wales Industrial Development Association, and Mr. Clement Davies, M.P. for Montgomeryshire, decided to submit the proposal after hearing a favourable report from the Birmingham contingent on the facilities available in the county.

Caersws was suggested as the site for a new town 13 years ago, but at that time the scheme fell through. The village is situated five miles from Newtown and has good transport facilities and other services.

#### Industry on the move

The LCC reports that in the first six months of this year 13 firms from London and Greater London began production in the expanding country towns beyond the green belt, bringing the total to 35. Another 18 hope to start by the end of the year. Forty-one more firms are negotiating with the LCC's industrial centre, and many of these should be starting next year.

Expansion is in full swing at Aylesbury and Bletchley, in Buckinghamshire, at Swindon, in the East Anglian towns of Haverhill and Thetford, and at Edenbridge, Kent. At Luton and Letchworth local industry is expanding with the help of workers from London, and it is hoped that operations will soon be starting at Ashford (Kent), Basingstoke and Bury St. Edmunds.

#### Flats-for-houses proposal

Glasgow Corporation hopes to ease its overspill problem by replacing existing corporation houses by multi-storey flats. The city architect has been asked to report on the practicability of the idea.

The overspill population lies somewhere between 250,000 and 300,000, and very slow progress is being made in dealing with it. So far only 2,200 families have been nominated for overspill areas and 1,100 actually housed.

Councillor Alexander Hart, leader of the Progressive group, who made the proposal, said in the early days of housing development Glasgow had been over-generous in the use of land, with the result that they were now short of virgin sites. It was possible that in areas such as Mossspark and Knightswood they could increase the housing accommodation by 50 per cent.

Seconding the motion, Councillor Peter Meldrum, leader of the Labour group, said that even if the proposals were found to be practicable they would take many years to accomplish. The immediate task would be to find homes for people in the redevelopment areas.

#### Rehousing tops million mark

More than a million people have been rehoused and 335,632 houses demolished or closed under slum clearance schemes since the war.

This is stated in the quarterly housing figures for England and Wales published recently. The report also shows, however, that in the 15 years between 1930 and the end of the war the comparable figures were somewhat higher. In that time 1,350,293 people were moved and 340,961 houses demolished or closed.

The number of houses completed in Great Britain during the first six months of this year was 143,934, compared with 130,016 in the same period of 1959. Private builders are building more than local authorities—78,671 houses were privately built in the first six months this year against 65,263 built by local authorities.

#### Step towards new Cambridge college

Fitzwilliam House, the Cambridge home of many hundreds of Commonwealth and overseas undergraduates in recent years, has been allocated a site of seven-and-a-half acres on the west side of the Huntingdon road north of Cambridge, where buildings, accommodating 400 members, half of them resident, will be erected.

This marks a step towards full college status first envisaged about 10 years ago. The university grants committee will provide some £300,000 for the first stage of the work, to begin in 1961. This will comprise the erection of a dining hall, library, senior accommodation and administrative offices.

Fitzwilliam House will remain under the administrative control of the university for the time being, but the aim is to make it an independent college with its own governing body as soon as possible.

The council of the senate has recommended acceptance of plans drawn up by Denys Lasdun, but the unorthodox fenestration of the main block, with its undulating metal roof supported on pillars, is expected to arouse controversy.

#### RIBA maintenance scholarships

The following maintenance scholarships have been awarded for the year 1960/61.

An RIBA Houston scholarship of £125 per annum to Mr. D. R. A. Gerrard of Bath, Somerset; an RIBA Houston scholarship of £125 per annum to Mr. R. M. Watson of West Wycombe, Bucks; an RIBA Howe Green 4th and 5th Year scholarship of £40 per annum to Mr. J. C. Evans of Northampton; The Builder scholarship of £75 per annum to Mr. J. A. Taylor of Newcastle upon Tyne; the Ralph Knott Memorial scholarship of £45 per annum to Mr. D. M. Castle of London; an RIBA 4th and 5th Year scholarship of £60 per annum to Mr. J. A. McAdam of Cardiff.

The maintenance scholarships previously awarded to the following candidates have been renewed: Mr. H. M. Cummings (School of Architecture, University of Manchester)—RIBA Houston scholarship of £125 per annum;

*Continued overleaf*

## diary

#### Architectural Hellenic Tour

September 9-25. Eastern Mediterranean tour including Greece, Turkey and the Greek Isles. Further information from Merlin Marshall, 416 Kings Road, Chelsea.

#### Royal Institution of Chartered Surveyors

August 30-September 3. Chartered Surveyors Annual Conference at the University College of North Wales, Bangor.

Mr. A. G. A. Spicer (Department of Architecture, Kingston-upon-Thames School of Art—RIBA Houston scholarship of £125 per annum); Mr. Nicholas Wood (Cambridge University School of Architecture—RIBA Houston scholarship of £125 per annum).

#### Architects for church training college

The firm of Robert Matthew and P. Johnson-Marshall have been appointed architects for the new Church of England teacher training college to be built at Canterbury. The college will accommodate 400 students, with about equal numbers of men and women. It is expected that sufficient buildings will be ready in time to allow a full year of students to be accepted in 1963, and that the project will be completed by 1964.

#### Cricket: Architects v Surveyors

The RIBA Cricket Club and the RICS met for their annual fixture on July 2<sup>nd</sup> at Cheam. The game resulted in a draw though play went in favour of the surveyors.

They batted first and were able to declare at 260 for 4. This was largely due to a determined assault on the Architects' bowlers by Drew and Ridgwell in the latter stage of their innings. Drew was not out for a very fine 110, and Ridgwell gave very good support in being not out for 48.

The Architects' batting did not impress against a very steady attack, and they did not look like getting the Surveyors' total at any stage of their innings. Only Johnson batted with any success and he scored 58 of a total of 139 for 8.

Scores—RICS: D. H. Eastall b Spooner 21; R. G. Harrison b Batty 30; J. Drew n.o 110; D. Deagle b Gover 23; A. Goater b Gover 9; R. Ridgwell n.o 48; C. D. McLagan, P. Champion, G. Strachan, B. W. Ballard and B. Lindsay did not bat. Extras 18. Total, 260 for 4 dec.

RIBA: A. Marlow b Lindsay 4; J. G. Batty ct Eastall b Strachan 16; P. Johnson ct Deagle b Lindsay 58; W. Spooner lbw Ballard 2; B. Nicholls lbw McLagan 9; D. Robinson ct Drew b Ridgwell 12; B. Gover ct Ballard b Champion 4; K. Roberts lbw McLagan 10; D. Stevens n.o 4; K. Brown n.o 1; M. Pache did not bat. Extras 19. Total, 139 for 8.

#### Golf: Builders v Engineers

The match between London Master Builders' Association Golfing Society and the Metropolitan Borough Engineers' Golfing Society at Hendon recently ended in a draw. Scores:

Morning			
Engineers	Result	Builders	Result
J. L. Sharratt (11)	0	W. L. Makin (21)	1
J. H. Catt (18)		B. L. High (20)	
Miles Hudson (16)	1	F. N. Carmody (15)	
D. Hudson (18)		P. H. Bates (12)	0
W. Strother (18)	0	V. R. Hill (22)	
S. J. Purkis (21)	0	W. J. Jerram (15)	4/2 1
W. H. Gimson (23)	1	J. R. Lyddon (22)	1
			3

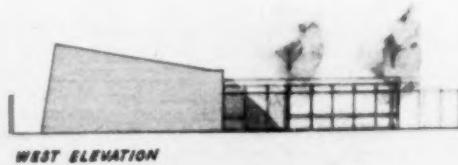
  

Afternoon			
Engineers	Result	Builders	Result
W. H. Gimson	½	F. N. Carmody	½
M. J. Grant (10)	1	P. H. Bates	½
Miles Hudson	1	J. R. Lyddon	0
D. Hudson	½	E. J. Cook (16) (Captain)	0
W. Strother	½	W. L. Makin	½
S. J. Purkis	½	B. L. High	½
J. H. Catt	½	V. R. Hill	0
J. L. Sharratt	1	W. J. Jerram	0
	3		1
	TOTAL 4		TOTAL 4

*Elevations and sections of the winning design in the country workshop competition. The three winning designs are illustrated on the following two pages*



NORTH ELEVATION



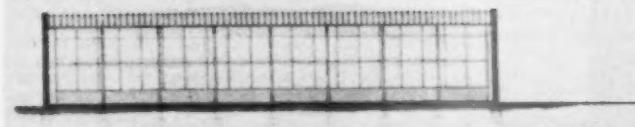
WEST ELEVATION



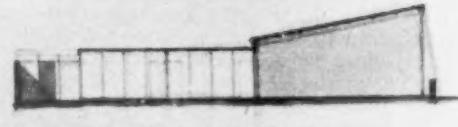
SOUTH ELEVATION



EAST ELEVATION



SECTION A-A



SECTION B-B

# competition: a country workshop

**First premiated design (£50)**  
**Graham Salloway**

**Second premiated design (£25)**  
**Clive W. Chambers**

**Third premiated design (£10)**  
**Kenneth Langlois**

THE object of this competition, open to student members of the RIBA, or other recognized schools of architecture, was to stimulate and improve the design of workshops and small factories for light industry, situated in small country towns and villages. The building was to be suitable for a light industry employing up to 20 people and was not to exceed £7,000 in cost, including services.

#### Dimensions

The workshop area was not to exceed 2,500 sq ft of working space; the general office: approx. 250 sq ft; manager's office: approx. 150 sq ft; and the canteen and kitchen: approx. 350 sq ft.

The judges for the competition were: J. Cosmo Clark, C.B.E., director of the Rural Industries Bureau; J. M. Knowles, F.R.I.B.A., A.M.T.P.I., consultant architect to the above; and Eric Davies, A.R.I.B.A., A.M.T.P.I. The prizes were partly given by rural craftsmen who had received assistance from the Rural Industries Committee and also from the Vaughan Nash Memorial Fund.

In their report, the judges said that "the main weakness of most of the competitors was one of over-elaboration and unfortunately many otherwise admirable schemes were too complicated and failed because their probable cost would exceed by more than 5

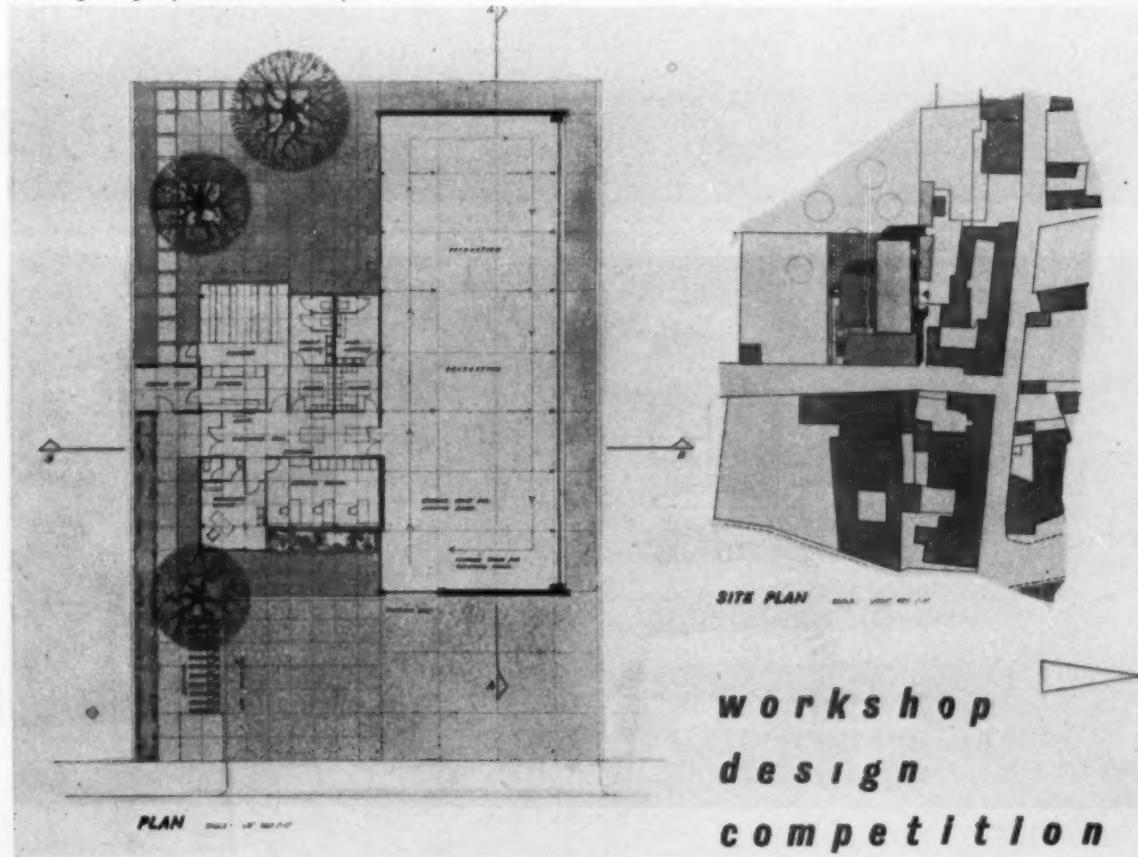
per cent. A moderate sum was included in the programme because, quite likely, the developer in a country town would be one with very limited resources.

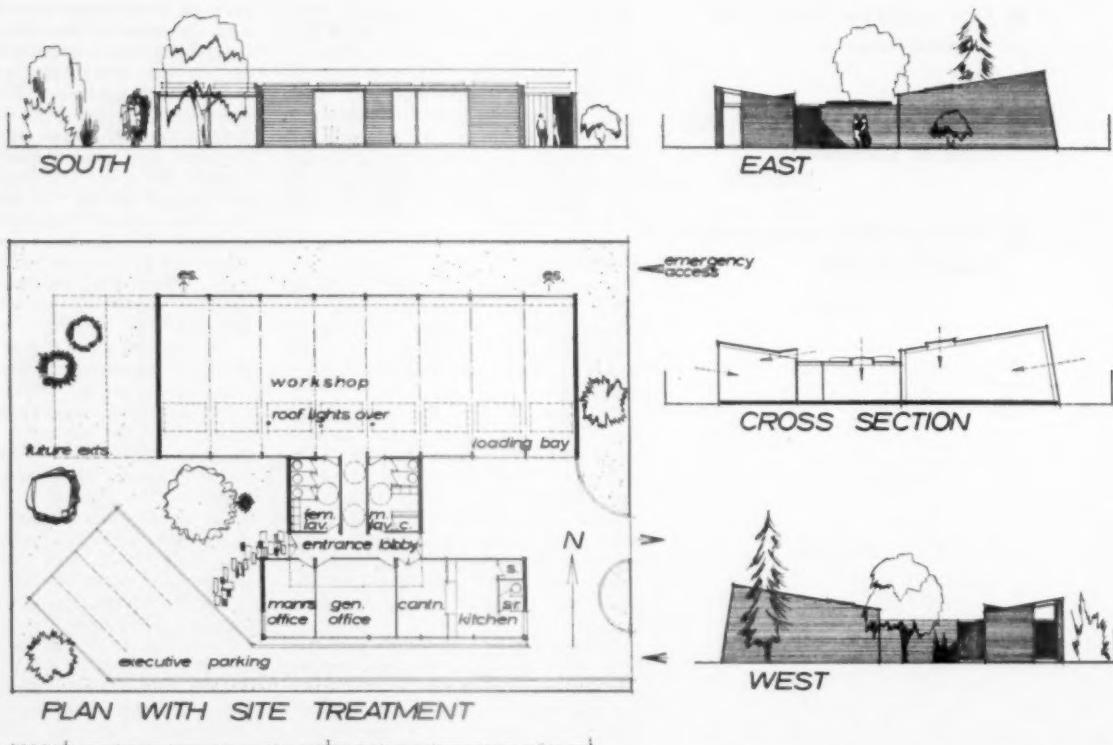
The winning scheme (Graham Salloway, Plymouth School of Architecture) "was a straightforward solution to the problem and thoughtfully designed around the cost. The buildings were well placed on the site and access to the offices and for loading are suitably arranged. The shape of the workshop would not be suitable for all processes and a squarer plan, incorporating extra lighting, would be in more general demand."

The second prize (Clive W. Chambers) had "an interesting layout and was one solution to the problem of good neighbourliness. Unloading is concealed from the public by the wall of the office block. The screen and gates give a domestic scale along the street frontage. The attempt to improve the edges of asbestos is very interesting, though the assessors consider the solution could have been attained by a cheaper and more effective method."

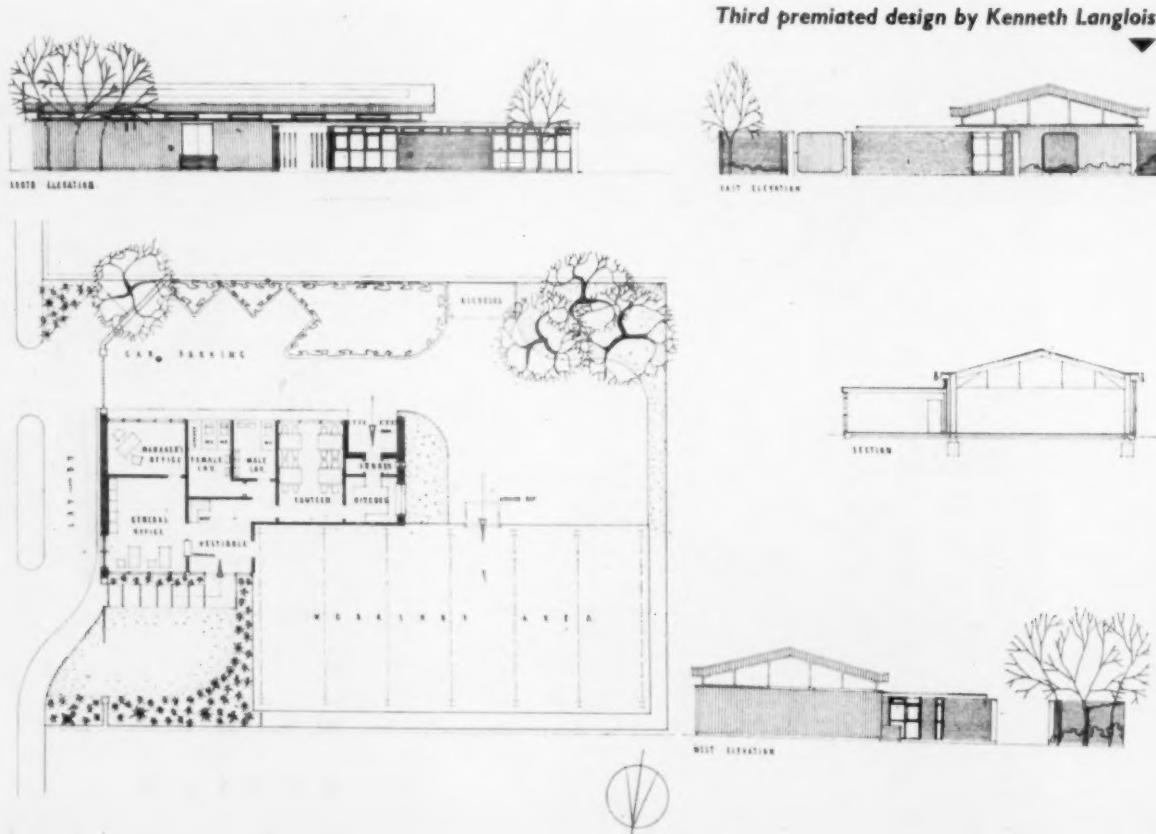
The third prize, awarded to Kenneth Langlois, "is a clear cut and thoughtful solution. It would be a prototype for a system of prefabrication. The shapes of the elevation was particularly pleasant and as in many schemes, the competitor had not allowed the workers to look out on anything but the sky."

Winning design by Graham Salloway





Second premiated design by Clive W. Chambers

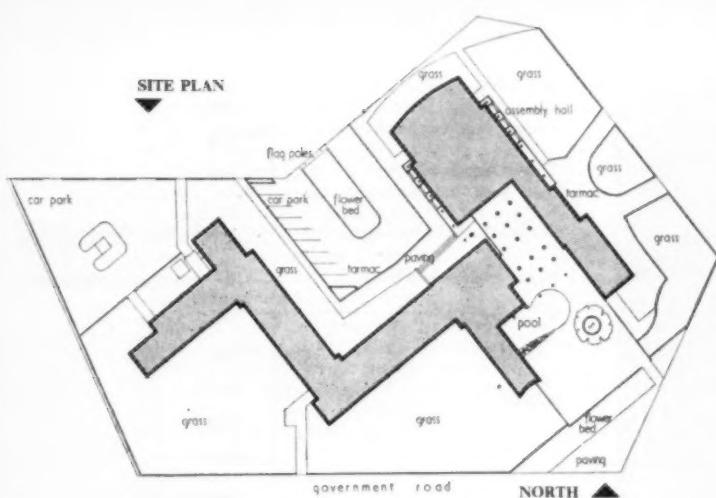


Third premiated design by Kenneth Langlois

# The Royal Technical College, Nairobi

169

SITE PLAN



## Tuition Block

Architect's Department, M.o.W. Kenya, architects

D. B. Mills, chief architect

L. Bintley, H. R. Thompson, government architects:

B. W. Webb, architect in charge

Quantity Surveyor's Department, M.o.W. Kenya

and Bridle and Evershed, quantity surveyors

Structural Engineer's Department, M.o.W. Kenya,  
structural engineers

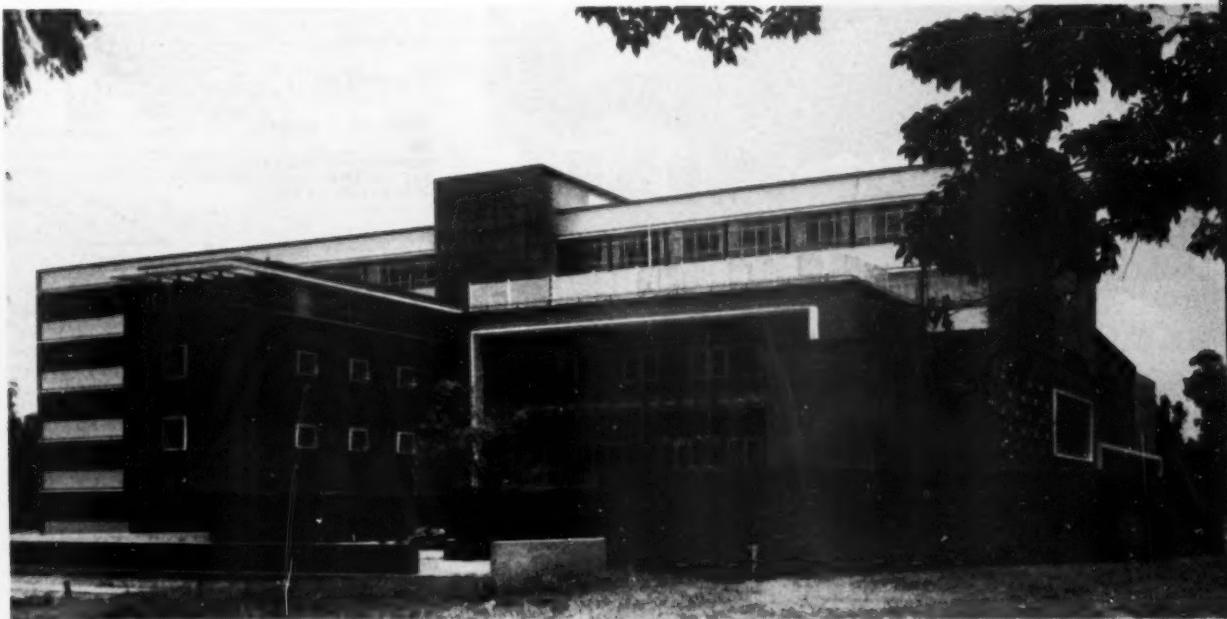
## Men's Hall of Residence

Blackburne Norburn, architect

G. C. W. Ogilvie, partner in charge:

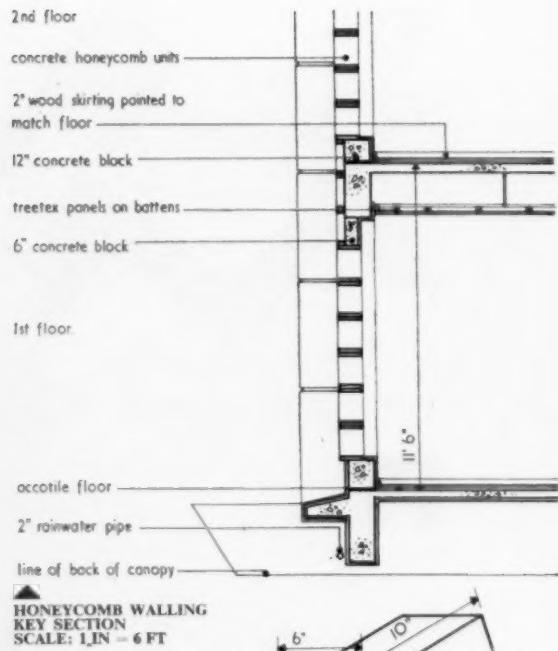
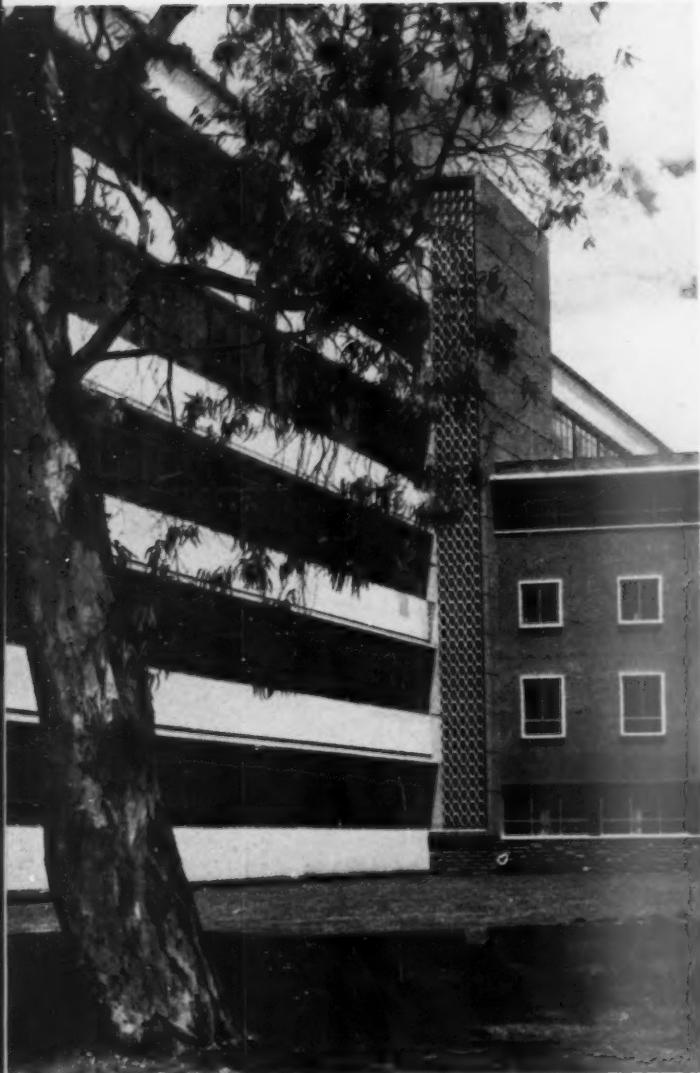
Armstrong and Duncan, quantity surveyors

Blackburne Norburn, structural design



South and north elevations to the Tuition Block





THE Royal Technical College is at present the only college of its type in Nairobi (the University for east Africa being at Kampala) having a multi-racial and international membership. It is likely to become a university college in the near future, if the recommendations of a working party from London University are accepted.

#### Client requirements

The client required a college to cater for education in all the main branches of technology for persons of all races, but capable of development to university status. In the first instance accommodation was required for 1,000 full-time students.

#### Planning

A five-acre site was available adjacent to the future cultural centre at the north end of Government Road. Maximum site coverage of 30 per cent allowed by the Town Planning Department necessitated planning on five floors. Other considerations were the avoidance of west sun and maximum cross ventilation to laboratories and classrooms.

#### Structure

A reinforced concrete frame and foundations (taken to an average depth of 8ft) support R.C. slab floors. External walls are constructed of locally quarried stone, or pre-cast concrete blocks and hollow clay blocks. Finishes include *in situ* unpolished terrazzo and rough-cast Tyrolean rendering.

#### Services

All plumbing, including laboratory wastes, rainwater and lavatory wastes is taken down in internal ducts. Gas for laboratories and cooking equipment is supplied by oil-fired gas plant attached to workshops.

#### Costs

The total cost was £321,000 made up as follows: Foundation contract: £21,000; Superstructure: £250,000; Assembly Hall: £50,000.

#### Timing

Foundation contract, 10 months, completed September 1952. Superstructure contract, 25 months, completed July 1955. Assembly Hall contract, 17 months, completed September 1956.

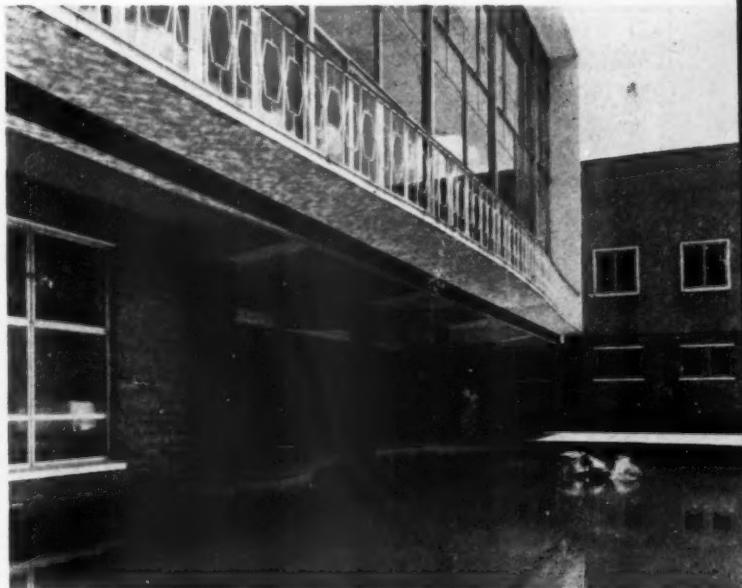
#### Tuition Block

##### General Contractors:

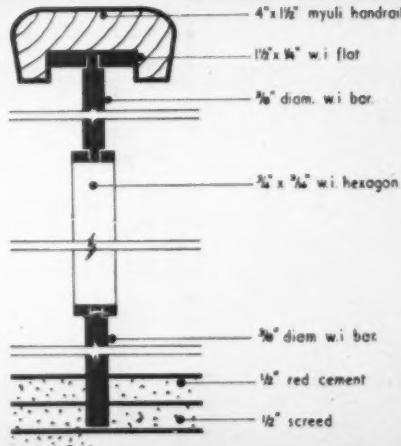
**Foundation Contract:** Foale & Co., Nairobi. **Superstructure Contract:** Taylor Woodrow (East Africa) Ltd. **Assembly Hall Contract:** Hem Singh, Nairobi.

##### Sub-contractors and suppliers:

**Decorating:** P. J. Roche & Co. Ltd., Nairobi. **Electrical Engineering:** Chief Electrical Engineer, Ministry of Works, Kenya. **Lifts:** Marryat & Scott. **Plumbing and Drainage:** Thornton & Turpin, Nairobi. **Roofing-Rubberoid:** Neumann Gopp (E.A.) Ltd. **Tiles-Thermoplastic:** C. Dorman Ltd. **Windows:** Henry Hope & Sons Ltd.

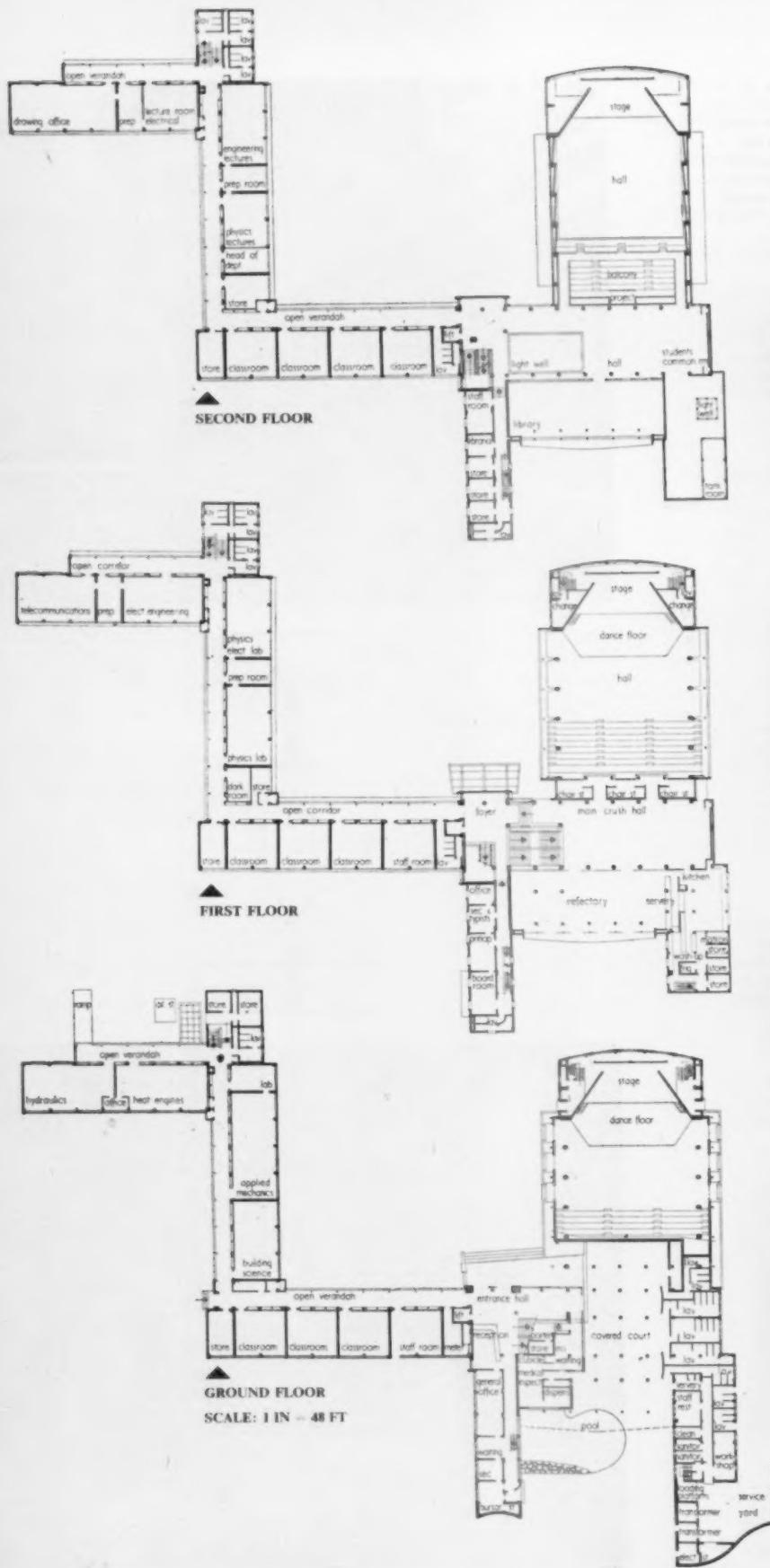


Above, a refectory cantilevers over a decorative pool adjacent to the covered court. Below, the main vertical circulation areas

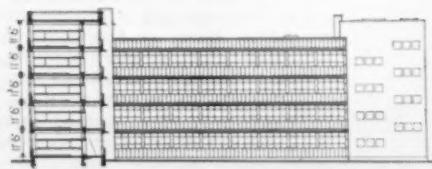


BALUSTRADE DETAIL

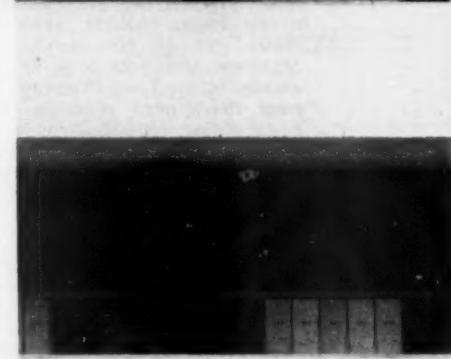




## **SECTION THROUGH CLASSROOM BLOCK**

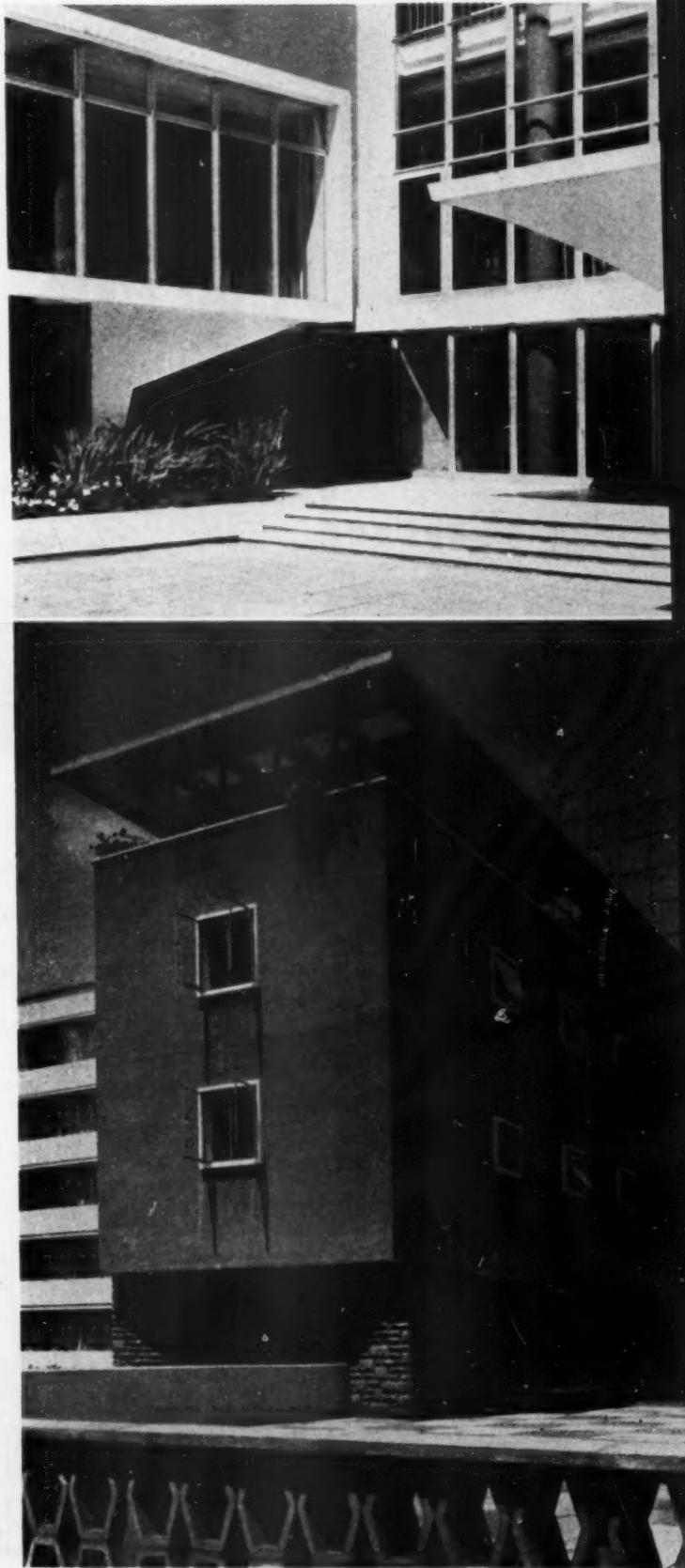
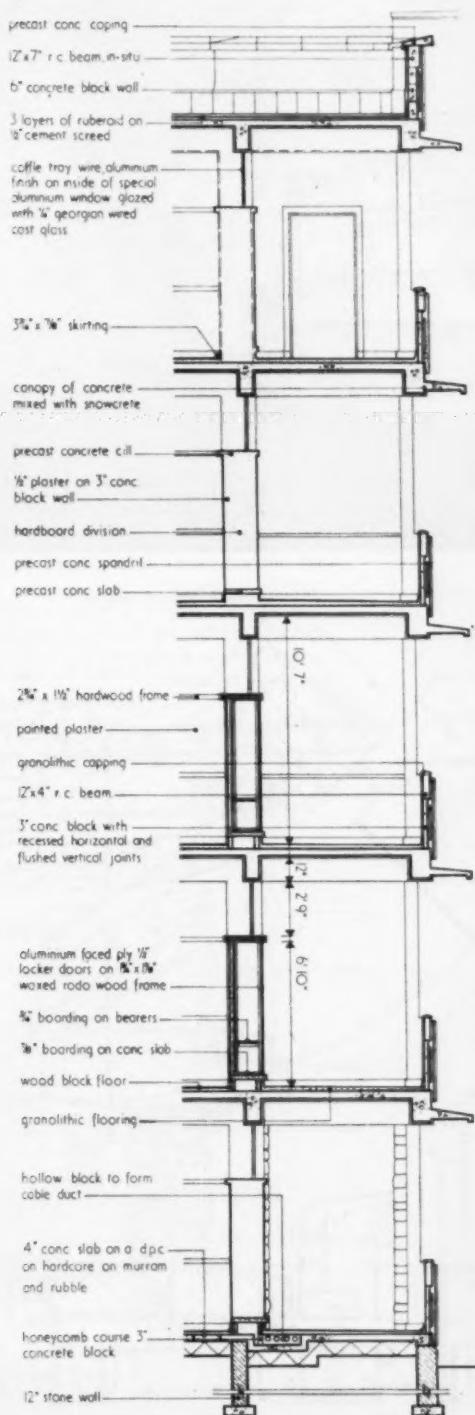


**Detail, access balconies, classroom block**

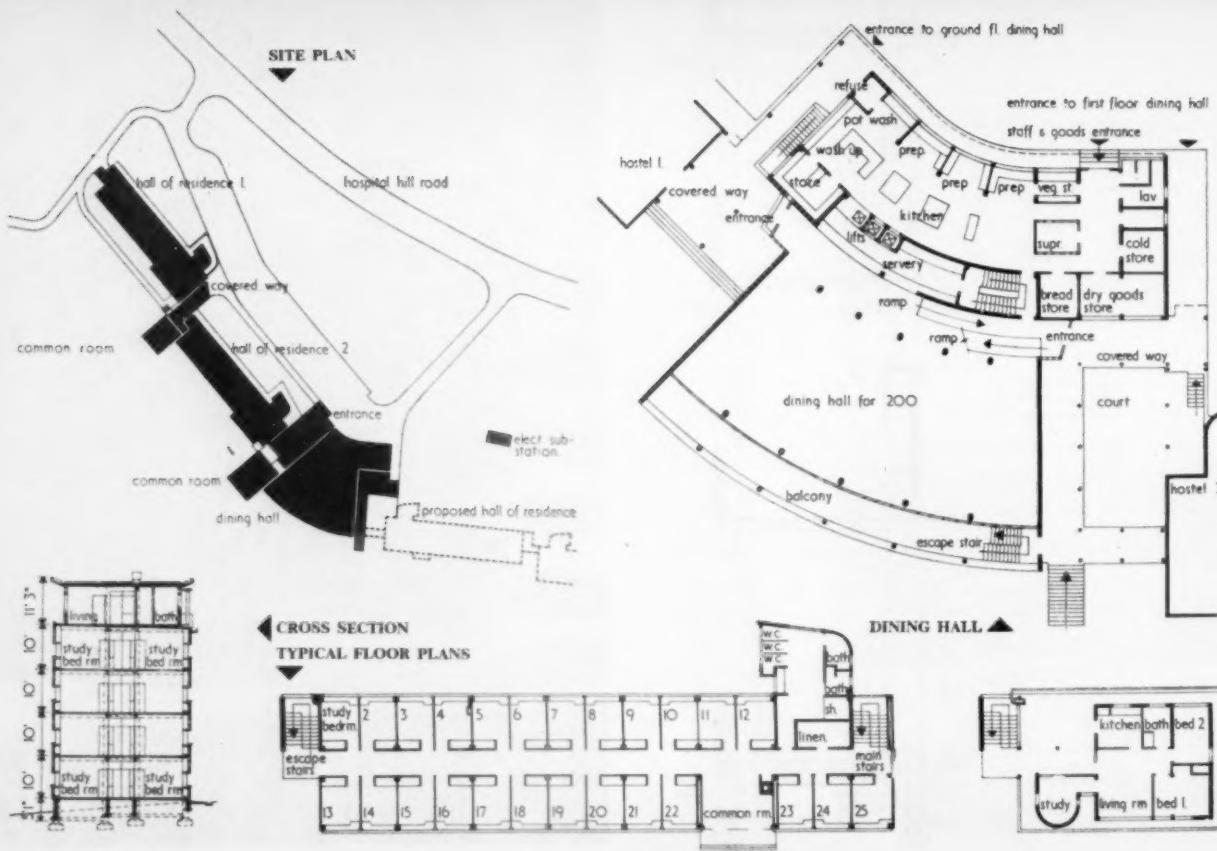


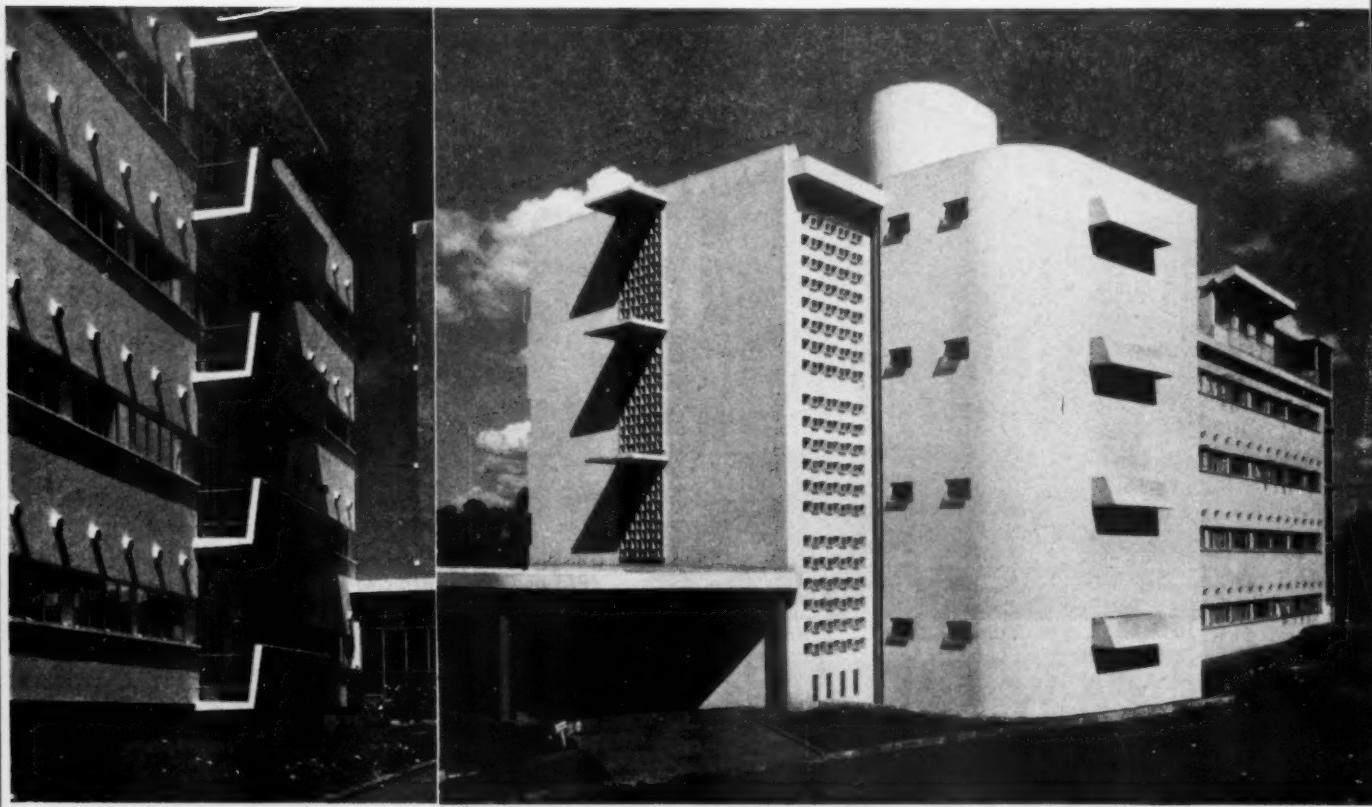
Right, a detail shot showing the junction between lecture hall and entrance. Bottom, the administrative block (caretaker's flat top floor). The building illustrated here is at present having a further floor added together with a workshop block and another multi-storey block called the American Wing

DETAIL SECTION, CLASSROOMS. SCALE: 1 IN = 8 FT

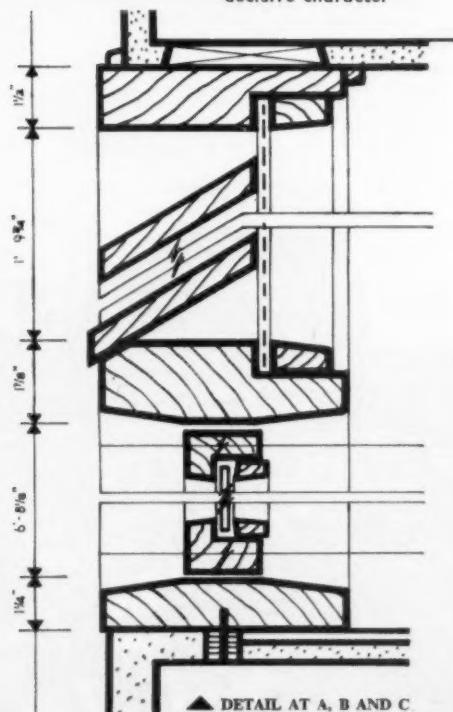


Halls of residence 1 (right) and 2





Two of the halls of residence for the technical college. Further units of a similar design have since been built in an echelon formation making a fine group with a strong, decisive character



concrete structure—

ventilation block—

precast wardrobe top—

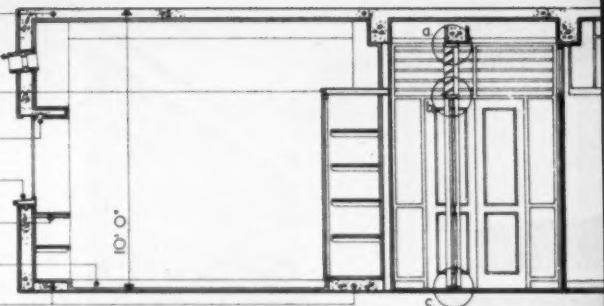
curtain groove—

precast conc cill—

precast conc desk & shelf—

coloured cement skirting—

4" conc block plinths—



SECTION THROUGH TYPICAL STUDY BEDROOM

#### *Men's Hall of Residence No. 2*

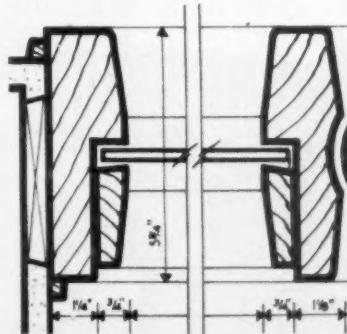
*General Contractors :*

*Coronation Builders Ltd.*

*Sub-contractors and suppliers :*

*Electrical Installation : Breyer Ltd. Ironmongery : Pearson's (Architectural Supply) Company. Metal Windows : "Ideal". Mamujee Bros. Ltd. Oil-fired Boilers : Perkins. Paintings & Co. Ltd. Painting and Decorating : City Decorators Ltd. Plumbing and Drainage : Ernie Campbell & Co. Ltd. Road Works : Broadway Construction Co. Roofing : C. Dorman Ltd. Sanitary Fittings : Jamesens Ltd. Tile Paving : Lino and Cork : African Floor Coverings Ltd.*

#### *▼ PLAN SECTION THROUGH DOOR*



#### *Men's Hall of Residence No. 1*

*General Contractors :*

*Coronation Builders Ltd.*

*Sub-contractors and suppliers :*

*Electrical Wiring and Fittings : Breyer Ltd. Ironmongery : Jamesens Ltd. Lifts : "Marryat & Scott". Kettles-Roy & Tysons Ltd. Metal Windows : "Hopes" : Beales & Co. Ltd. Painting and Decorating : O.K. Decorators Ltd. Plumbing and Drainage : City Plumbing Works ; Ilam Din & Co. Ltd. Roads and Paths : Mauladiad and Rose. Tiles-Cork : Linton Floor Co. Lino : African Floor Coverings Ltd. Marley : Naumann Gepp (E.A.) Ltd.*

## The New Stanley Hotel



Cobb, Archer and Scammell, architects  
A. D. Gaymer, partner in charge  
T. N. Burrows, assistant  
Armstrong and Duncan, quantity surveyors  
consulting engineers:  
Ove Arup and Partners, structural  
Crawford, Lowe, Dryden and Partners, electrical

*The New Stanley Hotel replaces an hotel originally built in 1913 and was constructed in two stages, the second stage being completed last year (see plans opposite)*



THE planning problem is one of separation between the service circulations for staff, supplies, linen, etc., and the circulation of guests. Older parts of the building having been planned with extensions in mind, fit well into the overall conception which comprises a service core approached from Standard Street and a service lift and staircase connecting all floors adjacent to staff accommodation, linen rooms, etc. The stores in the basement are connected by a tunnel under Standard Street with the basement of New Stanley House where are located the bulk stores for Block Hotels Limited.

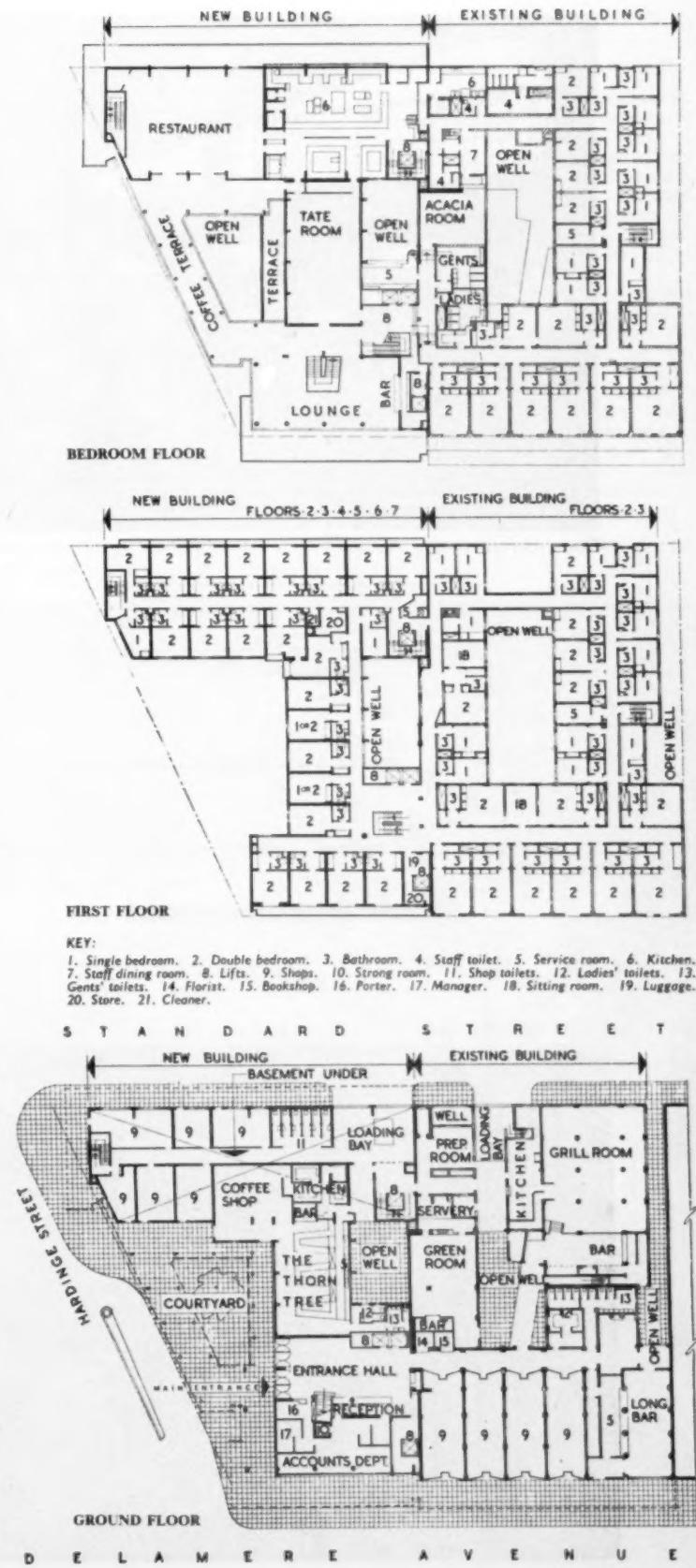
Whereas the old building occupied the whole area of the site it was a requirement of the Nairobi City Council that the new building together with those parts of the original building that remained should not exceed a plot ratio of 4.5. The ground thus given up has been used to create a forecourt roughly triangular in shape facing Hardinge Street and adjacent to the main entrance. This paved area in which has been planted a Thorn Tree, one of the most beautiful and typical of Kenya's indigenous trees, is designed as an open-air extension to the nearby soda fountain and coffee shop and this paved area flows partly beneath the building creating interesting vistas for pedestrians on the pavement and from the glass link between lounge and restaurant above.

#### Structure

Two major problems occurred in the design. The first of these was the problem of demolishing a portion of the existing hotel and fitting a new structure adjacent to the existing building. It was not possible to keep the columns of the new building away from the old and in order to avoid underpinning of existing foundations it was decided to use bored piles. The remaining foundations on the Delamere Avenue Block consisted of the normal isolated and strip types. However, the foundation pressures were kept low as borings put down to investigate the sub-strata encountered pockets of clay at lower depths. Foundations to the Standard Street Block were designed as a raft on elastic foundations and the reason for this approach is given later.

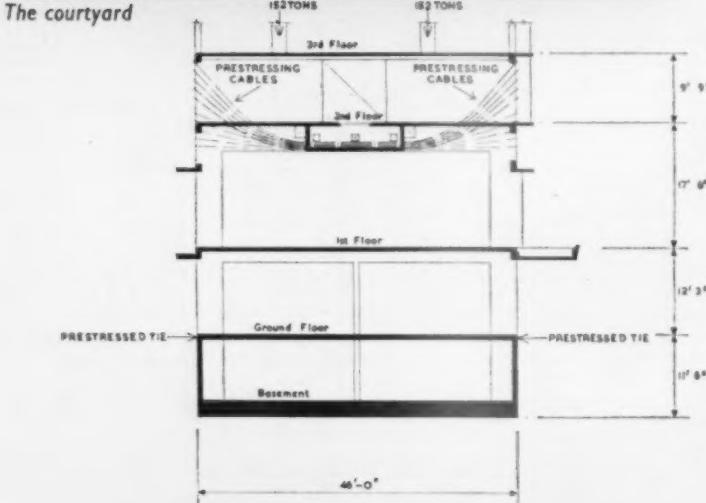
Superstructure is of the normal beam and *in situ* slab construction and the structure is so arranged to suit the architectural requirements as neatly as possible. Some interesting problems were encountered and special features include post-tensioned beams, cantilevering stairs and a box-type basement.

Figure 1 illustrates the post-tensioned beams carrying seven floors. The client was unwilling to accept columns in the dining area and kitchen. It was therefore decided to span 46 ft with beams in normal reinforced concrete construction but this was later amended on account of economy





The courtyard



One of the bars



and because the shear stresses were excessive. The use of prestressed concrete was decided upon and this technique overcame the shear problem and saved approximately £200 per beam.

The beams were cast *in situ* with the cables contained in steel ducts. Where the ducts are curved, lead lined sheaths were used to reduce the effects of friction. It was decided to use the Freyssinet system and when the concrete attained sufficient strength the cables were tensioned and the ducts filled with grout.

The collection of the loads by these beams and translating them to the outside of the buildings introduced a further complication to the design of the foundations. As the basement was to be waterproofed it was essential to have a clean box-type structure, to facilitate the tanking. The original concept was a simple raft but this would have necessitated a 4ft deep concrete slab. It was, therefore, decided to consider the foundation as an inverted portal. As prestressing equipment was available, a prestressed tie was incorporated in the ground floor slab. By taking into account the upward deflexion of the slab and the resulting redistribution of loading, the thickness of the slab was reduced to 2ft at midspan and further savings effected.

#### Services

Mechanical ventilation is provided by an extract system in the kitchen and an input system to the restaurant, state room and lounge. Ventilation is provided to the interior bathrooms by fitting a special type of fan to the top of the plumbing and drainage ducts, which extracts air from the bathrooms. Plumbing services were complicated by the fact that every bedroom has a bathroom attached. In order to reduce the amount of pipework and save space, bathrooms are in most cases arranged back to back allowing one set of services to feed two bathrooms from each vertical duct. The vertical ducts are only 20in x 24in in plan, and access is provided by removable panels in the corridors. Hot water is provided through steam heated calorifiers, each of 500gal capacity.

#### Costs

Total cost £455,000 inclusive of all fees and furniture.

*Consultants for Plumbing, Drainage, Water Supply and Steam Services:*

Kirk, Grundy & Partners.

*General Contractors:*

The Mowlem Construction Co. Ltd.

*Sub-contractors and suppliers:*

*Electrical:* Clough Smith & Co. (E.A.) Ltd. *Plumbing:* Niranjan Sing & Son. *Lifts:* Otis Elevator Co.

# Flats at Pantin, France



The point blocks

architect: Emile Aillaud

THESE flats, near the Paris suburb of Pantin, are part of a social centre which includes two schools, shops, market, a crèche and a special centre for mothers.

The architect adopted the principal of a garden city and 73 per cent of the site is green park, 13 per cent for roads and parking and 14 per cent for construction. The idea was to avoid giving an impression of "collective" living, thus stressing the importance of privacy and eliminating what the architect calls "geometric abstracts too visible to the eye". Planning, therefore, was influenced by this desire to achieve a feeling of hazard and the unexpected.

#### Planning

There are 1,223 apartments altogether, allotted in various blocks, 791

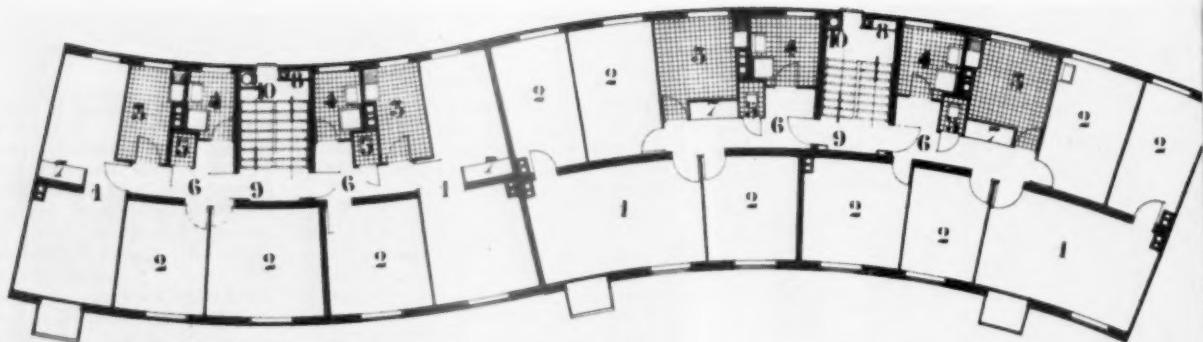
of them are planned in two different types of buildings. The first and main scheme is a sinuous block which is almost a mile long and completely surrounds a park. Passages beneath the building lead to the park, each entrance having two doors, one to the park and the other to the street. Parking space is provided for one car to every three apartments.

The second scheme, containing the remainder of the 791 apartments, is contrasting in form and includes the shopping centre (22 shops on the ground floor).

The flats in both these schemes are of the following dimensions: one-room flat, 177 sq ft; two rooms, 468 sq ft; three rooms, 581 sq ft; four rooms, 708 sq ft; and five rooms, 808 sq ft. Density of population is 29

A sinuous block, almost a mile long, surrounds a park and contrasts with point block development elsewhere





▲ TYPICAL PLAN—HORIZONTAL BLOCK

flats to the acre or 89 rooms to the acre.

The buildings have terrace roofs. There is a centralized disposal for refuse and all flats are heated by central heating.

#### Low-rent Flats

The remaining 432 flats are of lower rent and construction is of prefabricated concrete panels lined with insulation material; façades are finished with ceramic tiles. These blocks of flats are again designed with contrasting forms. The first type comprises 13-storey tower blocks with three flats

to a floor, each with three rooms. Two lifts and central refuse disposal are included.

In order to individualize the tower blocks, small annexe buildings of differing shapes are situated at the foot of each building, and these accommodate perambulators, bicycles, etc. The blocks are built on varying levels and the design is such that the windows of the flats are never "masked" by another tower.

The other low-rent flats are in two five-storey blocks and installations are the same as in the above flats.

Density of population here is 59 flats to the acre or 188 rooms to the acre.

#### KEY:

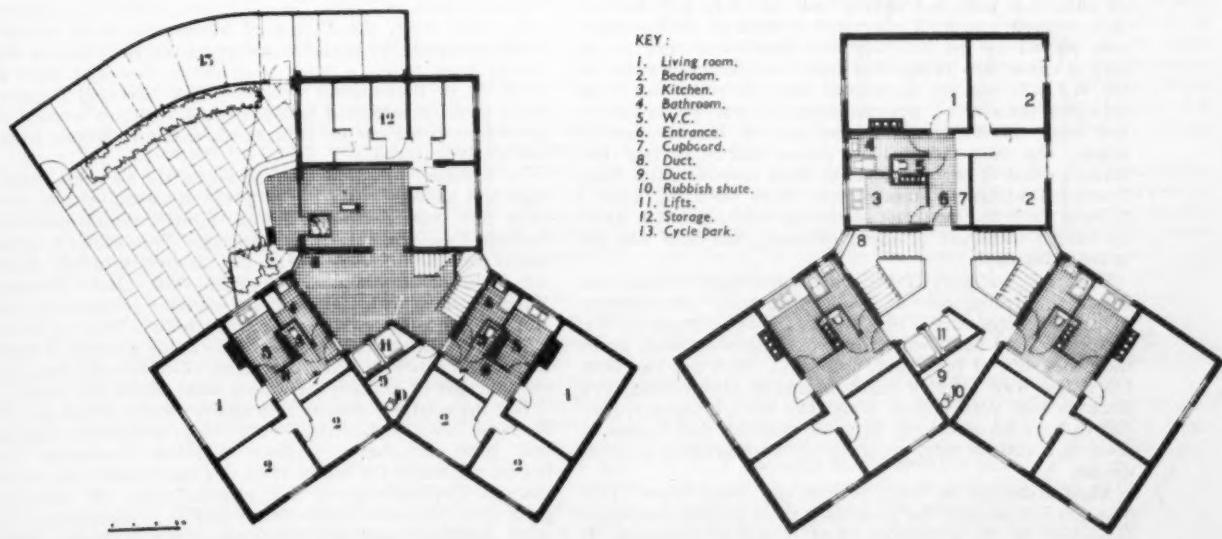
- 1. Living room.
- 2. Bedroom.
- 3. Kitchen.
- 4. Bathroom.
- 5. W.C.
- 6. Entrance.
- 7. Cupboard.
- 8. Duct.
- 9. Vertical circulation.
- 10. Rubbish chute.





In the whole scheme 1,223 units of accommodation are provided. Above, the 13-storey tower blocks providing 39 low-rent flats in each tower. The blocks are sited in such a manner that the windows of flats are never "masked" by another tower

▼ TYPICAL PLANS—POINT BLOCK



**The Development of the Architectural Profession in Britain.**  
by Barrington Kaye. George Allen & Unwin Ltd. 25s.

**I**N the ordinary way one glance inside the covers of a book with as many footnotes as appear on practically every page of Mr. Barrington Kaye's "The Development of the Architectural Profession in Britain" would have been enough to make me close it with a shudder and head for the golf course. Fortunately, however, this reviewer happens to be an architect, and this book, in addition to being a fine piece of historical research, deals with a perennial problem in architecture which none of us can afford to ignore, even though we might like to do so.

To anyone who has given the matter any thought it will not come as any very great surprise that there is some connection between what might be termed architectural philosophy and the manner in which the profession achieved public recognition in its present form. As we have evolved from the anonymity of the mediæval master mason and artificer through the eighteenth-century phase of the "gentleman architect", subservient to private patronage, toward the period of much greater vulnerability created by the expansion of capitalism in the nineteenth, so it became vital firstly for the architect to build up his prestige by introducing some guarantee of integrity.

Mr. Barrington Kaye's account of the various societies which foreshadowed the birth of the R.I.B.A. in 1834 has been well outlined from the historical material available. (It turns out that the footnotes are only necessary for those who become sufficiently fascinated to want to go more deeply into the matter.) In an age not too dissimilar from our own, when speculative pressures following the conclusion of the Napoleonic wars and the beginnings of the Industrial Revolution were encouraging many unscrupulous operators to compete with men of principle in the field of building and design, the instinct for survival of this latter group made it imperative that an association be formed from which any person who might bring it into disrepute would be excluded.

The long and wearisome struggle through the years toward the next goal begins with the Gothic Revival, and continues throughout the nineteenth century. It was fought out in the "Battle of the Styles", and finally resulted more recently in the Architects' Registration Act. The primary concern of architects had by this time centred around the question of competence. This meant the setting up of standards, and satisfactory measurement to those standards meant that those who entered the profession would have to be examined. But before you can examine a person he must be trained and educated. The R.I.B.A. has never taken it upon itself to do this.

It was left to the spontaneous efforts of the students themselves to form their own Association for purposes of education and, not having been an A.A. boy himself, this reviewer was most interested to learn of the important role played by the Architectural Association and of the way it came into being. For many an earlier member of the R.I.B.A. was by no means eager to relinquish those tidy little sums which were an important part of his income and were derived from the fees paid to him by articled pupils. The only means these pupils had of raising their status to that of architect was to meet together after office hours (of which not much could have been left after a 12-hour day) for purposes of mutual criticism often aided by benign members of the profession. Self-help was the order of the day.

The real "nubbin" of Mr. Barrington Kaye's book consists in his recognition of a bogey he calls "the dilemma of artistic autonomy". For most of us this monster first raises his ugly head when the boss comes around, grabs the pencil out of our hand, and says: "No, not like that. Do it this way!" But it really begins to rankle when you discover that your clients, who after all are laymen, turn out to have an annoying habit of insisting that things be done in a certain way, generally to the detriment of your design.

Must architects be born, or can you make them? This question has plagued the profession since private patronage ceased to be the architect's chief means of existence. It

came to a head in the famous "Battle of the Styles", and though this battle is supposed to have been won by the "professionals", it continues to reverberate in R.I.B.A. committee rooms. For surely the arguments for and against a "two-tier" profession concern themselves with this matter, as do certain aspects of the question of "all-in" service, not to mention the role of the "puppet" architect as recently revealed in the Piccadilly inquiry.

It is interesting, but not very comforting, to learn that in former times architects have almost ceased to exist. Our degree of dispensability has never really been determined. It remains to be seen whether complete closure of the profession can ever be achieved (nobody designs a building who is not an architect, and nobody may build one without employing one). Is this desirable?

An architect visiting this country recently from America was heard to deliver himself of the following: "The trouble with most architects today is that they talk too much, and don't draw enough". Regardless of the fact that most architects think of building as an end in itself, and of drawing as merely a means to that end, it has always been the opinion of this reviewer, bolstered by a certain amount of teaching experience, that good drawing is associated with creative ability. Of course, as some of the advertisers of courses in commercial art say, "anyone can draw", and that may be true—up to a point. Perhaps this constitutes the dividing line between the sheep and the goats; between the architect who is born, but may never practice, and the architect who is made, but will never make architecture.

At the risk of being branded flagrantly anti "professional"—in the historical context where Mr. Barrington Kaye uses the word—the hope is expressed here that the "artist-architect" will continue to find justification for his existence, and that the profession will continue to be distinguished by men of creative capacity above and beyond mere engineering or promotional zeal.

JOHN G. GRACE.

**The Buildings of England: Leicestershire and Rutland.**  
by Nikolaus Pevsner. Penguin Books Ltd. 10s 6d.

**P**EVSNER does it again. In his latest volume in the Penguin Buildings of England series he conducts the intelligent antiquary and the imaginative architect round the counties of Leicestershire and Rutland—373 pages of text and 64 pages of illustrations for a mere 10s 6d, if you choose the handy paperback edition. No doubt the permanent resident will spot omissions (almost certainly small and venial ones), but to the visitor or tourist Dr. Pevsner seems to miss nothing worth seeing from the "one small W. lancet in the N. aisle" of St. Andrew's, Glaston, to Redmire Railway Station built in the most up-to-date Norman Shaw or Ernest George idiom, allegedly in honour of a visit from the Prince of Wales. Such an entirely random *sorites Pevsnierianae* sampling certainly makes the reader want to get a ticket to Redmire. Not that there is anything of Betjemanian whimsy about Nikolaus Pevsner. All is listed, inventoried, matter-of-fact, with just a touch of astringent comment or enthusiastic commendation when obviously required.

In Leicestershire and Rutland there are no great buildings, not a single cathedral or great monastic church, and only one outsize palatial house, though mixed-medieval Belvoir Castle is spectacular enough. The author's comments on the Mausoleum in the Castle's grounds show his style of erudition at its best—"the clash between Baroque theatrical and Norman severity is acute to us. But the age of Schinkel could relish both". Who of those who read this will fail to explore the castle grounds if ever at Belvoir, however wet the weather. Dr. Pevsner has this peculiar gift of making the reader want to see for himself.

But these largely unspoiled counties—some would say of Rutland "wholly unspoiled"—are full of delightful villages and most impressive ancient churches. Somerset for towers; Rutland for spires. Here one can wander for miles through England's green and pleasant land. Of the one great city, Leicester itself, unless one is a connoisseur of good nineteenth-century warehouses and factories, little

architectural praise can be sung. There are no new public buildings of interest. For all the contemporary rebuilding, the centre is undistinguished. But is this not characteristic of our country, which contains Europe's most beautiful countryside and its most seemly villages, but its ugliest and least impressive towns? Dr. Pevsner, however, looks hopefully to the future. "Leicester has now appointed as its consultant one of the best of the younger English architects, and so one's hope for the future and a true twentieth-century Leicester is focused on that quarter."

D.A.W.

### Lettering on Buildings

by Nicolette Grey. Architectural Press Ltd. 25s.

THE recent growth of interest in lettering and its revival as a minor art form owes a great deal to Nicolette Grey. She has an unusual combination of scholarly precision and imaginative insight and in this book she has condensed the whole range of architectural lettering into a most usable reference book.

Nicolette Grey not only knows her material through and through but she sees it with the eye of an artist, intent not only on its past triumphs but on its future possibilities. These possibilities are very considerable. We have barely begun to explore the place of lettering in the contemporary idiom. The best examples still tend to be in architectural perspectives by Gordon Cullen rather than on actual buildings. Incidentally Gordon Cullen is responsible for the very effective design of the jacket.

And yet the advent of multi-level shopping centres and pedestrian ways and the more imaginative use of illuminated advertising are obviously going to offer tremendous opportunities for new thought in design. This book will provide the necessary background knowledge.

It is divided into two parts: the first a description of the various families of alphabets—Roman, fat face, sans serif, Tuscan, Egyptian and so on; the second a discussion of the theory of the use and design of lettering taking into account the material used, fitness for purpose, the use of relief and colour and, probably most important of all, its relation to the building and its immediate surroundings.

The illustrations have been drawn from a very wide range of sources and they are well cross-referenced to the text so that the book should be easy to use. It really is a "must" for every architect interested in design and for anyone at all concerned in the production of lettering on buildings.

GORDON LOGIE.

### Art and Architecture in Belgium, 1600—1800

by H. Gerson and E. H. ter Kuile. Pelican History of Art. Penguin Books Ltd. 63s.

**T**HIS volume is very heavily balanced in favour of painting, only about a quarter of its text being given over to Dr. ter Kuile's section on architecture and sculpture. For this reason his tightly compressed and expert survey is apt at times to get rather like a catalogue of names comparatively little known in this country. One has also to realise that within his two fields no individual, among many of considerable talent, can rival the genius and importance of Rubens, Van Dyck, and other painters of the seventeenth-century Flemish school.

An important point about Belgium is that no such country, politically speaking, existed before 1830. Yet from the period of the Reformation, and of the religious fission of the Netherlands between North and South, the area under Habsburg and Catholic sway developed an artistic and cultural character very different from that of the United Provinces. Within the territory of the Spanish (from 1714 Austrian) Netherlands the main and most characteristic centre of artistic radiation was Antwerp. The areas near the French border stayed culturally within the orbit of France. The Renaissance, so far as architectural detail (as distinct from basic design) was concerned, was accepted

fairly early, and earlier than in England, but late Gothic design long prevailed over the "spatial" planning one normally associates with Baroque. So aisled, basilican churches, like that of St. Walburga at Bruges, were built with Baroque facades; not till St. Pieter's at Gent (started in 1629) did Flanders get its introduction to the newer trends and to a fully Renaissance surmounting dome. Even Rubens' Antwerp house had no more than a modicum of the Italian in its Baroque. In domestic work, as also in Holland, Baroque design was mainly seen in the gables of houses of "traditional" urban design. A more interesting building, to which the author hardly does full justice, was Lucas Faydherbe's strange church of Our Lady of Hanswyck at Mechelen. In the eighteenth century the architecture of the southern Netherlands was mainly secular, and Namur Cathedral was designed by a Milanese. By the end of the century, as one well sees in the "planned" royal quarter of Brussels, French classicism had become dominant.

More important for us in England, and well treated by Dr. ter Kuile, was the Flemish school of Baroque sculpture and woodwork, growing in the seventeenth century and running on into the eighteenth with the amazing, profuse virtuosity of the pulpits, stalls, and confessionals which astonish the visitor in Belgian churches. Of the Antwerp sculptors of this period, the younger Quellinus collaborated with Wren and Gibbons in the splendid Baroque altarpiece installed by James II in his Catholic chapel at Whitehall. England then became a favoured goal for emigrant Flemish sculptors, and with the work of van Ost, Rysbrack, and Scheemakers this country fully participates in the *opus* of this particular Continental school.

BRYAN LITTLE.

### Encyclopedia of the Law of Town and Country Planning by Desmond Heap. Sweet and Maxwell Ltd. £10 10s.

**I**N 1943 the Minister of Town and Country Planning was created and, with him, a new Department. Since that time they and their variously-named successors have shown one unfailing characteristic; this characteristic is an outstanding and prodigal capacity for producing new legislation supported by shoals of subordinate documents.

Acts directly and primarily concerned with land planning have been passed in the years 1943, 1944, 1946, 1947, 1949, 1951, 1952, 1953, 1954 and 1959. Practically no year has ended, since 1947, without at least one addition being made to the Statute Book which has had an important effect upon planning. All this has been copiously extended by Regulations, Circulars, memoranda and other papers far too numerous to mention.

What is more this stream shows no sign of abating. There is currently passing through Parliament a Bill which is likely to have an important influence on planning affairs. The Ministry's output of circulars this year is well up to their proud record. And when the contents of all these documents are considered there seems to be ample reason for thinking that the effort to bridge the gap between official views (policy is too strong a word here) and reality will offer ample scope for fresh Ministerial activity for a long time to come.

All this poses a host of problems for the practitioner affected, be he architect, surveyor, engineer, builder or lawyer. How to keep up with the tide of planning legislation? Almost every book becomes out-of-date within twelve months of its publication. There has long been a real need for a well-written and comprehensive work on planning law and practice which can be effectively kept up-to-date.

At long last this much needed book has been produced. Mr. Desmond Heap, who is one of the foremost authorities on the subject, has performed a notable service in editing this very full account of planning law and practice.

The book is produced in two loose-leaf volumes. The first volume consists of two parts. Part 1 is a useful introductory general outline of planning law of about 140 pages. Part 2 contains the annotated texts of the 23 statutes most closely concerned with planning. This part occupies nearly 1,000 pages. The annotations are fully up to standard and on the whole, the cross references are ade-

quate. The only regrettable feature of this part is the manner in which case references are handled. The first need is for a reference to the official report wherever there is one; here the almost invariable reference is to Planning and Compensation Reports. This latter publication has the outstanding merit of being published by the same publishers, Sweet and Maxwell, but otherwise would hardly seem to vie with the official report. (Curiously enough this novel system of reference is not always followed in part 3, e.g. see pages 3046, 3165, 3167 and 3176.)

The second volume contains parts 3, 4 and 5. Part 3 which occupies another 300 pages set out and annotates all the Statutory Instruments which are still in force or which may still be of practical import and which number nearly 100.

The last two parts are those which are likely to be of greatest interest to those readers who are not lawyers. Part 4 consists of some 80 circulars which are thought to be relevant. A list is provided of another 97 circulars issued by the Ministry of Town and Country Planning but not reprinted in this volume. Among the many advantages afforded by this part is the fact that it reprints many of the forms and details many of the procedures whose use is recommended by the Minister.

The final part contains a reprint of all the English and Scottish Bulletins of Selected Appeal Decisions and the recently published Selected Planning Appeals. It also contains a Digest of Planning Decisions contributed by Harold J. Brown. This section is largely a reprint of some useful articles published in the Journal of Planning and Property Law in recent years. The Digest is likely to be of particular value to those directly concerned with development.

Mr. Heap rightly points out in his preface, that despite the elaborate structure of law "in the ultimate analysis all town planning control depends (subject, of course, in a Democracy to what Parliament has to say) on what the Minister responsible for town planning thinks". These two parts, 4 and 5, provide the best guide available to what the Minister is said to think.

The whole work is conveniently arranged, well printed and supplied with an adequate index; above all it is easy to find one's way about the work. Some small regrets must be felt that, necessarily in a work of this kind, there is so little room for Mr. Heap's personal characteristics. His writing is always marked by exceptional clarity, humour and a lucid enunciation of principles. Even in the opening statement little is heard of his authentic voice; that is heard alone in the preface.

It is intended that the whole work shall be kept up-to-date "by the removal of spent pages and their replacement by new leaves to be published from time to time". If anyone entertains any doubt as to a need for a work of this kind the answer is surely to be found in the fact that eight new pages of text have already had to be provided and all the indications are that at least two more large sets of replacement pages will be needed before the end of the year. The Ministry are bravely supporting the publishers.

If the noter-up service lives up to the standard of these two volumes this encyclopedia is clearly going to be the leading and indispensable work in the field of planning law and practice.

F.H.B.L.

#### **Survey of London—Vol. XXVIII. The Parish of Hackney, Brooke House.**

**The Athlone Press.** 30s.

THIS volume of the Survey of London is of unusual interest as it is concerned with a single building which is described as "a fifteenth-century fossil in a Victorian suburb". Brooke House was never beautiful but it had lasted a long time and had had an eventful history before it was bombed in 1940. The L.C.C. who acquired the ruins decided, rather than attempt to restore it, to demolish brick by brick and produce this very complete written and illustrated record of the vicissitudes of a mediæval country house. The result may well be of interest even to those who do not normally read archaeological books.

#### **Books Received**

*Country Houses of Dorset*, by Arthur Oswald. Published by Country Life Ltd. Price £3 3s. This book illustrates and describes many of the beautiful country manors in Dorset. A comprehensive introduction reviews historical and architectural aspects of the subjects and there are more than 200 illustrations including a folding map.

*Polythene. The Technology and Uses of Ethylene Polymers*. Edited by A. Renfrew and Phillip Morgan. Published by Iliffe & Sons Ltd. Price 16s. This is the second edition and includes 93 pages of art plates and numerous text illustrations. It sets out the basic facts of all aspects of polythene production, properties, handling techniques and major uses in an authoritative appraisal which should be essential to all technologists in the plastics industry and in many industries where polythene assumes an important role.

*Roads and Their Traffic*. Edited by Ernest Davies. Published by Blackie & Son Ltd. Price 35s. This book provides an introduction to traffic engineering and aims to arouse an appreciation of its importance. Thirteen experts from different countries have contributed articles.

*Administrative County of London Development Plan. First Review 1960*. Published by The London County Council. Price 50s. This County Planning Report is a review of the Development Plan prepared by the London County Council in 1951. The basis is the civic survey made in 1957 which has produced a mass of hitherto uncollected material.

*University of Leeds Development Plan*. Published by the University of Leeds. This is a report on proposals for the way buildings could be planned and laid out to accommodate both the present needs and the growth in the size of the University, which may be expected during the coming decade, prepared by Chamberlin, Powell and Bon.

*Theory and Design in the First Machine Age*, by Reyner Banham. Published by the Architectural Press. Price 45s.

*The Provincial and Country Builders' Price Book 1960*, by George H. Griffiths.

*Garages and Service Stations*, by Rolf Vahlefeld and Friedrich Jaques. Published by Leonard Hill (Books) Ltd. Price 63s.

*English Decorative Ironwork 1610-1836*, by John Harris. Published by Alec Tiranti Ltd. Price 42s.

*British Architects and Craftsmen*, by Sacheverell Sitwell. Published by Pan Books Ltd. Price 5s.

*Quantities and Estimating for Building Technicians*, by John F. L. D'Este. Vol. III. Carpentry, Joinery and Ironmongery. Published by E. & F. N. Spon. Price 15s.

*Heating and Hot Water Supply for Domestic and Other Buildings*, by Colin Penn and Donald Soley. Published by B. T. Batsford Ltd. Price 35s.

*British Plastics Year Book 1960*. Published by Iliffe & Sons Ltd. Price 42s.

*Slum Clearance and Compensation*, No. 45, by J. F. Garner. Published by The Solicitors' Law Stationery Society Ltd.

*Safety on the Site*, by B. A. C. Whyte. Published by the United Trade Press Ltd. Price £1.

*Masters of World Architecture*. Six volumes, under the general editorship of William Alex. Published by The Mayflower Publishing Company Ltd. Price 32s each:—

*Ludwig Mies Van Der Rohe*, by Arthur Drexler.

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## ELLIPSE

The Architect and Building News, 10 August 1960

37

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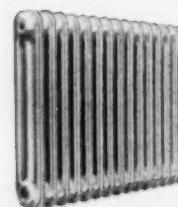
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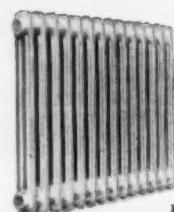
*Double Wall*



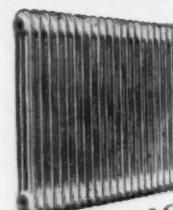
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# information digest

The Architect and Building News, 10 August 1960 185

## OFFICIAL PUBLICATIONS

- **Sponsored Fire Resistance Tests on Structural Elements.** D.S.I.R. and Fire Offices' Committee Joint Fire Research Organisation. H.M.S.O. Price 7s. 6d, plus postage 6d.

When an Authority demands 1-hr, 2-hr or 4-hr fire resistance to a "structural element" it usually means "more weight to be carried" as the first reaction, having in mind solid brick or concrete as the protective material. The present publication is a compilation of many fire tests and shows how the Authority's requirements can be satisfied by the use of hollow clay blocks and many other materials of very much less weight than the conventional materials. It fulfils, therefore, a most useful function and will no doubt be in much demand, especially as there has been hesitancy in the past about disclosing the results of some fire tests. The publication may be unfair to some materials in that there will have been tests on materials since this book went to press but one must suppose that it will be reissued with additions from time to time. It is important to note, however, that this publication has limited applications and does not include tests on materials for partitions, fire lobbies, doors, etc. Some of the proprietary materials which were submitted to the tests are in fact so used but this book does not deal with partition material.

- **Noise in Factories. Factory Building Studies No. 6.** Building Research Station. H.M.S.O. Price 3s 6d, plus postage 4d.

A recent reference to noise in factories in this digest concerned the effect on workpeople. This Study is more interested in taming the noise source—in some cases a more difficult problem than that of reducing all-over noise by reducing reverberation. The Study notes that as more powerful machines are brought into use, so the noise product is likely to rise.

Plant layout can assist by siting noisy machines remote from quiet areas but, production flow being so important, the economical location of noisy machines will normally determine their positions. This presumes that the machines are noisy despite the efforts of the designer to reduce the noise—it seems that some machines may be noisy because no one has bothered to make them quieter by good design and machining. There are two courses available, one being to insulate the machines off the structure, while the other is to enclose them in boxes or cubicles so as to contain the noise. The former treatment does not reduce air-borne noise but this can be absorbed to a greater or lesser degree by applying insulating materials in the form of partitions, roof linings and ceiling grids. These methods are fully described in the second part of the book.

- **Identification of Hardwoods: A Lens Key.** Forest Products Research Bulletin No. 25. D.S.I.R. H.M. Stationery Office. Price 7s 6d, plus postage.

The sub-title "A Lens Key", although cryptic, is the clue to the method, described in this 2nd Edition, of identifying hardwoods. A microscopic examination is necessary, the features of each timber being identified and compared with master cards. A variant of the "punched card" system is used, where the holes in the edges of the cards, representing certain features, are cut into slots to pick out characteristics of the specimen. Table I is a Reference List of Features, these being numbered from 1 (Pores, exclusively solitary) to 87 (Growth rings, porous). The intermediate numbers are used for a variety of features, such as pore size, peculiarities of rays and colours. A section is devoted to geographical regions. To identify a timber, a specimen is cut or split, examined through a magnifying glass and its features noted from the Reference List. The feature numbers are written down and compared with the numbers given in the book against the names of species, of which

a large number is given, both as to botanical name and common name. Photographs of specimens are illustrated. Where frequent use is made of the system, time is saved by using the punched and slotted cards referred to, each card representing a species of wood which can be extracted by needles in the usual way.

- **B.S. 3249 : 1960. Cables and Flexible Cords insulated with varnished cambric and heat-resisting fibre.** Price 5s, plus postage.

**C.P. 2006: 1960. Code of Practice for traffic bearing structures—Pavings.** Price 30s, plus postage.

### BSI News.

British Standards Institution, British Standards House, 2 Park Street, London, W.1. Telephone: MAYfair 9000.

The title of B.S. 3249 might concern a wide variety of goods described as "cables" so it may be suggested that, to save inquirers time in looking through lists of B.S., it would be helpful to bring the word "Electric" or "Electrical" into the titles of B.S. dealing with electrical matters. The new B.S. supersedes part of B.S. 1327 dealing with flexibles using cambric and asbestos. The new Standard also takes in cables and allows the use of glass fibre and polyethylene terephthalate fibre in place of asbestos, suitable for dry situations and maximum conductor temperature of 85 deg C.

The Pavings covered in C.P. 2006 are for concrete roads, footways, cycle tracks and airfields and include work in foundations and surface water drainage. Guidance is given on design of foundations and the principles and factors in estimation of pavement thicknesses and widely differing materials usable for the substructure. Design and construction of concrete pavings are fully examined. It is claimed that this Code must become recognized as the standard work on paving practice. It is quite the most expensive noticed in this digest in recent years.

In connection with that last remark, BSI News contains an Open Letter to Members which warns them that, because of reduced support from Government funds, more must be obtained from subscribers and, at the same time, the free issue of Standards and other publications to members must be stopped. So British Standards and Codes of Practice, already very much more expensive than B.R.S. and similar publications may, as a result, rise in price. We are all urged to quote British Standards, which means all architects, builders, contractors and engineers should possess them. The demand must be enormous for the more worthwhile Standards and C.P.s and make publishers of technical books on similar subjects envious—apart from the authors.

Panels of plastic faced glass wool hung from the roof to provide sound absorption



Another article in the News stresses the importance of looking for the "kite" mark, so it is likely that a reluctance to allow this to be shown on some products has now been overcome. Kite-marked scaffold boards are now obtainable. Many new Standards are in preparation.

#### PROFESSIONAL ASSOCIATION PUBLICATIONS

- **Heights for new industrial chimneys.** G. Nonhebel, M.A., B.Sc., F.R.I.C., M.I.Chem.E., F.Inst.F. The Institute of Fuel, 18 Devonshire Street, Portland Place, London, W.1. Price 3s 6d.

Last May the Institute of Fuel held a meeting at which this Paper was read and it is referred to here because it brings to notice one effect of the Clean Air Act. Hitherto the height of a chimney has been determined by the boiler B.Th.U. but it is now also necessary to satisfy Local Authorities that the chimney will be high enough to ensure the complete dispersal of flue gases and residual dust. The difficulty facing both engineer and Local Authority is that no technical advice has been issued by any Government department. The Act requires the Local Authority to reject a design where the chimney will not satisfy the Act, yet nothing has been laid down as to the percentage at ground level of sulphur dioxide in the air which may be accepted, or the rate of dust deposit.

#### TRADE ASSOCIATION PUBLICATIONS

- **Specification for Granolithic Floor Toppings laid on in situ concrete.** Cement and Concrete Association, 52 Grosvenor Gardens, London, S.W.1. Telephone: BELgravia 6661.

In this publication the C. & C.A. achieve their customary standard once more, and "free" at that. Two conditions are considered, one being where the concrete slab is to be finished while "green", i.e. within three hours of placing the concrete slab, and the other where the concrete slab is hard before the topping is applied, i.e. after three hours from completion of laying. The Association strongly recommends the former where practicable, as many difficulties arise in the latter which can result in failure.

The Specification starts with the mix for the concrete slab, recommending  $\frac{1}{2}$ in aggregate except where thickness of slab and spacing of reinforcement allow the use of  $1\frac{1}{2}$ in aggregate. Of particular interest is the note on page 4 which states that natural sand is preferable to crushed stone as the aggregate for the topping because sand has a better particle shape than crushed material, so needs less water in the mix for working, hence better strength and less shrinkage. All materials and plant are to be approved by the Architect (or Engineer). This is an ancient custom: how many architects, products of the Oxford Conference educational policy, will be sufficiently knowledgeable? For that matter, how many are today?

In "monolithic" topping, bays should not exceed 300 sq ft but if only between 4in and 6in including base should not exceed 150 sq ft. Where the topping is added to a hard base, the bays should not exceed 150 sq ft. In all cases, edges of bays must coincide with those of the concrete slab and, in the case of suspended slabs, over centre lines of beams. The thickness of topping laid monolithically can be as little as  $\frac{1}{2}$ in nom. (minimum at the high spots  $\frac{1}{2}$ in) while  $1\frac{1}{2}$ in minimum is recommended when laid on a hard slab. Toppings should be trowelled three times in the 6 to 10 hours following laying. Laitance is to be removed from the surface and no cement may, in any circumstances, be sprinkled on the surface during trowelling. The final trowelling—which may be the fourth—should require firm pressure to produce any effect.

Before any topping is laid, the base concrete must be

clean and free from laitance. Ridged surfaces on the concrete do not assist in keying good topping.

Curing is best effected by covering up to prevent rapid drying by sun or wind, using wet canvas or straw mats or 2in of damp sand, building paper or plastics sheet, etc. It is noted that intermittent wetting of the topping may be detrimental. Curing should continue for seven days but rapid drying after this should still be prevented. Heating should not be allowed for six to eight weeks.

This is a model specification.

- **The Case for Coal.** National Coal Board, Hobart House, Grosvenor Place, London, S.W.1. Telephone: SLOane 3401.

Following the intensive Press advertising, this brochure again sets out the claims of a nationally-produced fuel, on availability, efficiency and economy. Some very large industrial units are now turning to coal, but whether only for new units or also for their existing plants is not clear. The Board acknowledge that users have had cause for complaint as to quality and availability in the past. It is claimed now that the Board's difficulties are being overcome by the installation of screening and washing plant and research into the uses to be made of the solid fuels available. The validity of the point that this is a national fuel, the use of which is to the national advantage, may be debated.

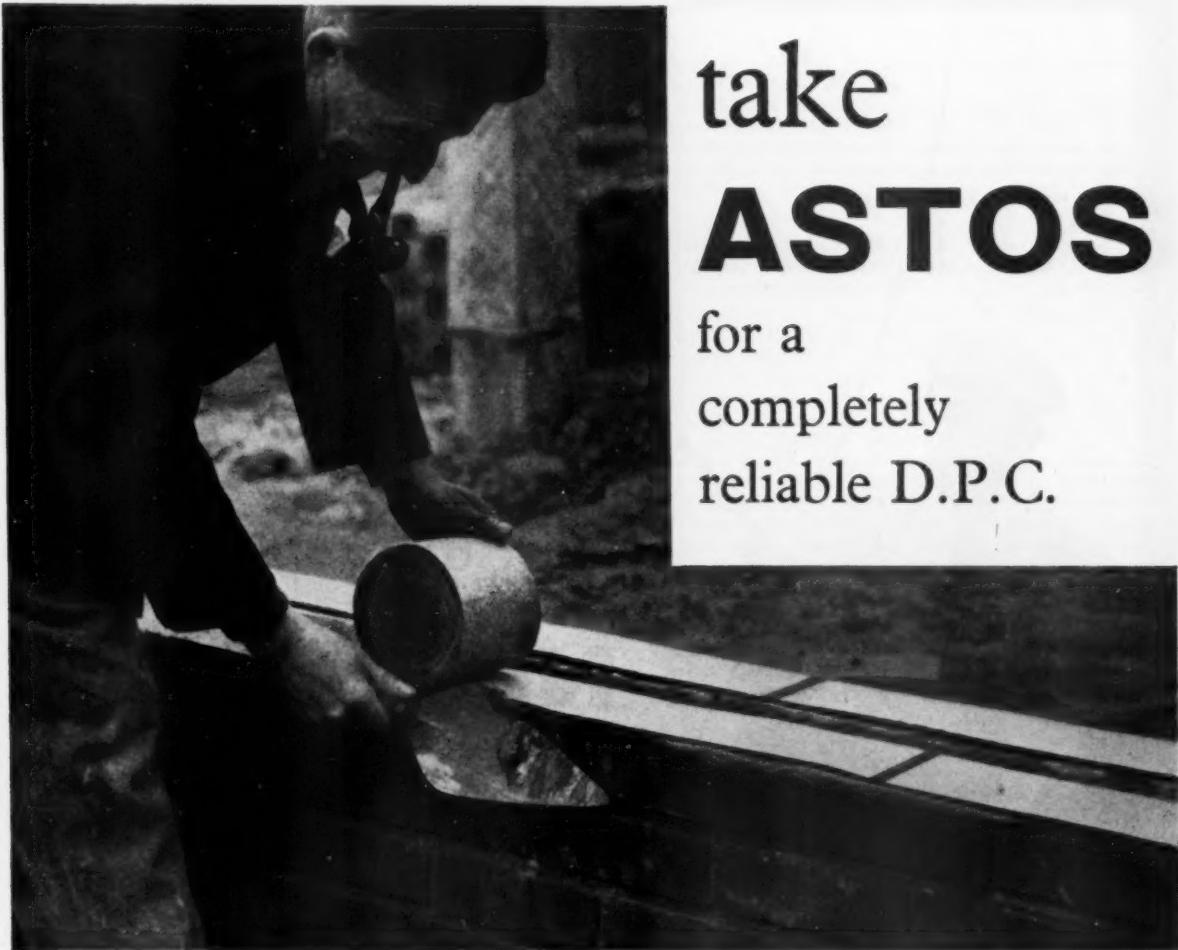
Industrial use is still 86 per cent, while for electricity and gas production it is 86 per cent and 94 per cent respectively, fuel oil providing the rest. Coal can be used in a "smokeless zone" by using efficient plant—even the domestic user can confidently burn coal in the kitchen stove if it is a modern one. In the living room, too, an open fire need not offend the regulations if it is an approved type of appliance. There is a brief summary of the Clean Air Act and anyone in doubt about a risk of breach of its provisions is invited to consult the Local Council or the National Coal Board. A useful section describes the many forms a mechanical stoker may take, for coal and coke.

- **Timber Roofs for Factory Buildings and the Thermal Insulation (Industrial Buildings) Act 1957.** Timber Development Association, 21 College Hill, London, E.C.4. Telephone: CITY 4771.

Thermal insulation and fire hazard through the use of timber roofs are the themes of this booklet. The classes of exempted buildings are re-stated, being boiler houses, manufacturing or cleansing processes which produce heat and buildings not requiring heat—a description which is not defined but might be presumed to include cold stores. The Act only requires insulation of the roof and varies, as to "U" value, according to the temperatures customary in the factory. Fire resistance must be considered but is not a controlling factor either in insulation material or in structural material such as the use of timber for trusses, purlins, etc., but increased weight is imposed through the addition of insulants. A new set of T.D.A. truss designs is being prepared which will allow for this.

Timber shell roofs of  $2\frac{1}{2}$ in thickness or more, covered with bituminous felt, do not normally require additional insulation but the under surfaces must be treated with fire retardant. Where timber linings are used as insulation, in matching or plywood, retardant treatment is also needed, but where a void is so formed both inner and outer surfaces of the wood must be treated with fire retardant. An odd point here is that if a boarded ceiling is put up as a feature and the roof insulation is satisfactory without the ceiling, no retardant treatment is needed for the wood ceiling. Water vapour again comes in for attention, for the booklet warns that moisture trapped in a roof cavity may cause decay.

Table 1 lists "U" values calculated by the Institute of Heating and Ventilating Engineers and as laid down under the Act, the two being markedly different, with the latter showing lower efficiencies. Insulating materials are also



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listed, the location being either below or above the purlins but it is noted that, in some cases, contact between the insulating material and corrugated roofing—used as the standard in each case—results in lower efficiencies. Woods are included here, from  $\frac{1}{2}$ in boarding to  $\frac{1}{4}$ in plywood, some cases being supplemented by aluminium foil or glass wool quilt. Similar comparison is made for tiled or slated roofs. Where fire retardant treatment is necessary is also stated. Further comparisons are given where flat ceilings are used under pitched roofs and, finally, timber shell roof figures are given.

Another useful feature is a list of treatments to give Class I Spread of Flame surfacing to combustible insulating materials, while another lists insulating materials and their resistivity (1)

● **List of Tested and Approved Domestic Gas Appliances.**  
**List No. 8.** The Gas Council, Murdoch House, 1 Grosvenor Place, London, S.W.1.

This annual list, dated March, 1960, is now available and gives names of manufacturers of a large range of appliances, including those for cooking, space heating, water heating, washing, airing, drying, refrigeration and a miscellaneous section which includes towel rails, shower cabinets and lighters. Included also is a list of conversion units suitable for domestic solid fuel boilers. There are the usual descriptions of appliances but no dimensions. In the Introductory Notes is a list of Codes of Practices applicable to gas installations and, in connection with solid fuel open fires suitable for smokeless areas, it is noted that provision for gas lighting is one of the conditions of approval. The Council therefore recommend that the burner be connected directly to the gas cock suitably hidden with, in addition, a branch cock to serve a gas heater for occasional use. This is usually a somewhat clumsy device projecting through the floor. Would it not be possible to design a cock and connector having no more projection from floor or skirting than a 13A fused plug? Private architects have overcome this feature of the gas cock. It is time the Gas Council turned its thoughts in the same direction—or inspired manufacturers to do so!

## TRADE PUBLICATIONS

● **Fibre Building Boards and Fire.** Fibre Building Board Development Organisation Ltd., Stafford House, Norfolk Street, London, W.C.2. Telephone: COVENT Garden 3008.

Spread of Flame is a quality that is now taken very seriously and until fairly recently the softer building boards have been used without giving much thought to the subject. This booklet is arranged in Question and Answer form, the replies serving to answer the critics of its safe use. The enormous consumption of fibre insulating board is given—150,000,000 sq ft in 1959 alone, and FIDOR claim that normally their use does not increase the fire hazard. Out of 52,000 fires, only 284 began in parts of the structure "made of materials other than natural timber"—of which many were not fibre insulating boards. Undecorated untreated fibre insulation board is in Class 4 Spread of Flame—"Surfaces of rapid spread" but decoration much improves this. Flame retardant treatment by paint, coating or impregnation, one or two coats of soft distemper on sized boards or, alternatively, three coats of soft distemper on the natural board, all raise the material to Class 1. Other decorative materials only raise it to Class 2 or 3. Hardboards are normally Class 3 but similar treatments raise it to Class 1.

A number of insulating- and hard-boards are now marketed treated during manufacture to give Class 1 surfaces but some care has to be exercised with these to see that the classification is not reduced by decorative materials nor that there is any interaction between the decorative

materials and the protective treatments, which are permanent and non-fugitive.

Fires have been investigated where fibre building boards have been accused of having fed the flames and FIDOR are satisfied that either untreated boards were used or there were other factors more responsible for flame spread.

● **Rubervent Built-up Roof.** The Ruberoid Co. Ltd., Commonwealth House, 1-19 New Oxford Street, London, W.C.1. Telephone: HOLborn 8797.

Some time has elapsed since this device came on the market so there has been a period of trial in which the claimed merits could be examined. The idea is again this matter of water vapour in roofs—the risk that it may be trapped by the bitumen film and only be able to escape through the structure, to its detriment. The theory is that the coarse granules which cover the surface of the felt provide air passages which enable water vapour to escape to the roof edges. The perforations in Rubervent allow the bitumen adhesive to pass through to the structural slab, so locating the Rubervent without grouting up the granular lower face. Detailing at roof edges is therefore slightly different from normal practice. Where, as at upstands, there is need to carry the top layer of felt into brickwork, thus sealing the roof edge, a vent can be formed at intervals employing Rubervent strips. At eaves and verges the Rubervent layer is not turned under as with the upper layers but left hanging as a drip, weather protected and fixed by the upper layers dressed over the edge of the roof.

● **Resins and Glues for Industry.** Leicester, Lovell & Co. Ltd., North Baddesley, Southampton.

The wide range of cements now available makes the selection of one for any particular job very difficult without technical knowledge. This Guide satisfies this need, for the index, on two pages only, gives first a list of industries and then a list of applications. Against each sub-head is given the number of the page in the catalogue on which information is to be found on the use of one cement, which may differ considerably from another, although the two may be equally effective in the finished work. Assembly wood gluing, for example, is covered on pages 4, 5, 7, 8, 9 and 16. Constructional wood gluing is referred to on pages 4, 5, 7 and 8 while for Flush Doors, pages 4 and 8 only apply. This guide should be helpful in the preparation of specifications for timber structures and joinery, where so often an architect will be content to specify the same firm's Cascamite in all conditions although Casco-Resin would suit some better.

## CATALOGUES

● **Electrical Accessories.** Clang Ltd., Cricklewood, London, N.W.2.

This company have issued their 1960/61 catalogue of domestic accessories for wiring and connections.

● **Sectional Buildings.** Stoner Appliances Ltd., Crawley, Sussex.

This small catalogue shows their Western Red Cedar sectional bungalows, garages, chalets, greenhouses, etc.

● **Steel Tanks.** Markland Scowcroft Ltd., Cox Green Works, Bromley Cross, Near Bolton.

This company makes standard size and special tanks, rectangular and cylindrical from 300gal to 10,000gal, which are shown in two leaflets now available.

- **Light Fittings.** Courtney, Pope (Electrical) Ltd., Amhurst Park, Tottenham, London, N.15.

This folder shows new assemblies of incandescent lighting fittings using glass and opaque shades as pendants and brackets, also applications of alternative assemblies to their range of "Vistalite" fluorescent lighting. All make much use of colour.

- **Intermix Paints.** Blundell, Spence & Co. Ltd., 37 Queen Square, London, W.C.1.

An "intermix" colour card has been prepared showing tints which can be made by a 1:1 mixture of their basic range of colours. 48 tints are shown.

- **Thermostatic Controls.** Honeywell Controls Ltd., Ruislip Road East, Greenford, Middx.

This company has issued information in loose-leaf form about their pneumatically operated thermostats and controls for ventilation and warming.

- **Garage Doors.** G. Brady & Co. Ltd., Ancoats, Manchester 4.

This firm makes three forms of door for small garages. Two are of the "overhead" type, one being counterbalanced and the other spring-balanced. The third type is a woodlath rolling shutter, which can be supplied to any size required.

- **Lighting.** Harris & Sheldon Electrical Ltd., 46 Great Marlborough Street, London, W.1.

This is a handsome quarto-size catalogue of their tungsten and fluorescent fittings, well illustrated with photographs. These include modular, commercial and industrial fittings and a range of pendants.

- **Roof Waterproofing.** Evode Limited, Stafford.

Evode Ltd. have issued a handbook on their systems as used overseas. It contains specifications and detail drawings.

- **Car Parking.** Wilson, Lovatt & Sons Ltd., 16 Grosvenor Crescent, London, S.W.1.

The catalogue illustrates and describes their systems of ramped multi-storey car parks, for which the architects are T. Elvet Llewellyn and Langford Gower and the structural designers are The British Reinforced Concrete Engineering Co.

- **Light Fittings.** Frederick Thomas & Co. Ltd., Everton Buildings, Stanhope Street, London, N.W.1.

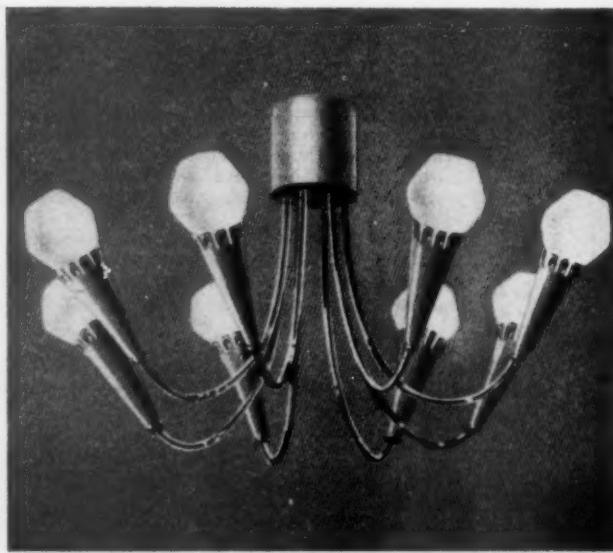
Catalogue R has been issued which shows an extended range of glass shade and metal fittings for tungsten lighting, fluorescent and external fittings.

- **Concrete Gutters.** Finlock Gutters Ltd., Finlock House, Frant Road, Tunbridge Wells, Kent.

Finlock are now offering new sections for their eaves units and for flat roof fascias, all illustrated fully dimensioned. A 20-year guarantee is given for their lined gutters, using aluminium and hot bitumen.

- **Asbestos Cement Sheets.** Universal Asbestos Manufacturing Co. Ltd., Tolpits, Watford, Herts.

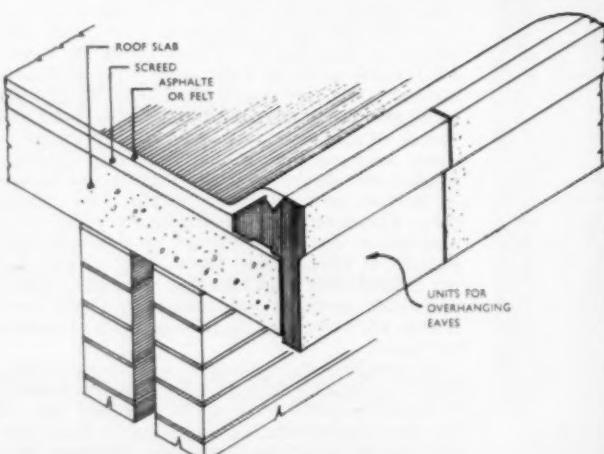
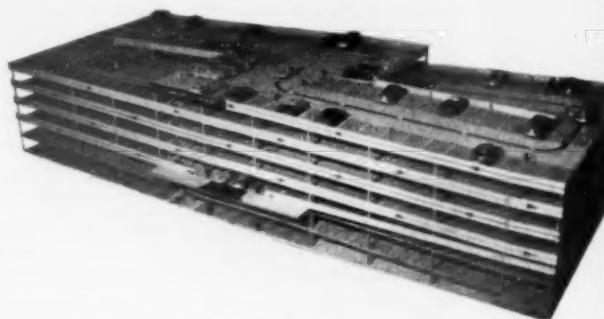
U.A.M. have issued their new Magnum sheet catalogue under SfB classification Nh1 with full details of size, weight, covering, supports, etc.

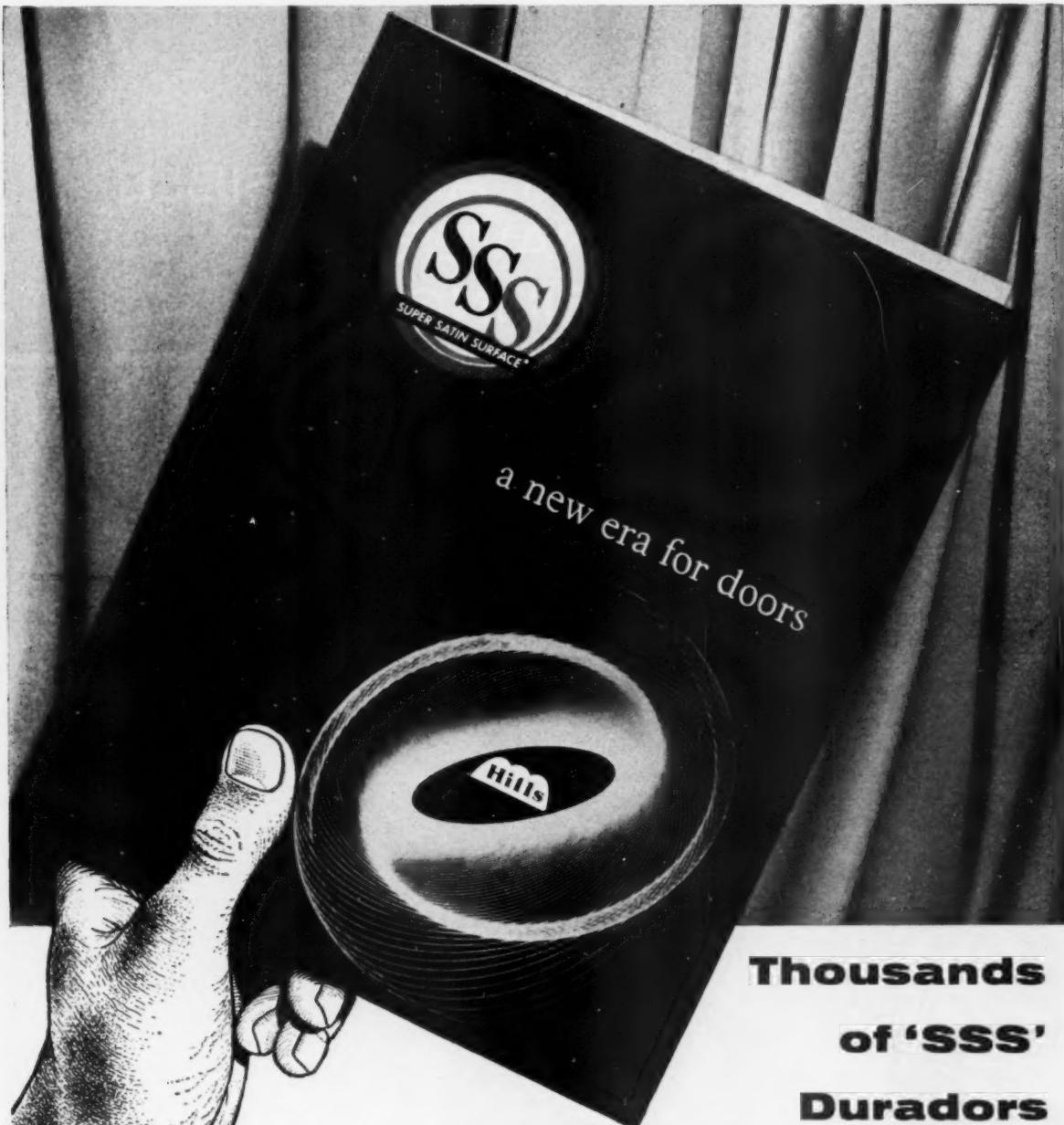


*Top: No. R.3005 ceiling fitting by Frederick Thomas. Finish: gilt bronze with matt black ceiling cup. 2in B.I. Fixing. Overall: spread 24in by height 13in*

*Centre: Model of the Streamline Parking Garage*

*Bottom: The Finlock Flat Roof Fascia for overhanging eaves*





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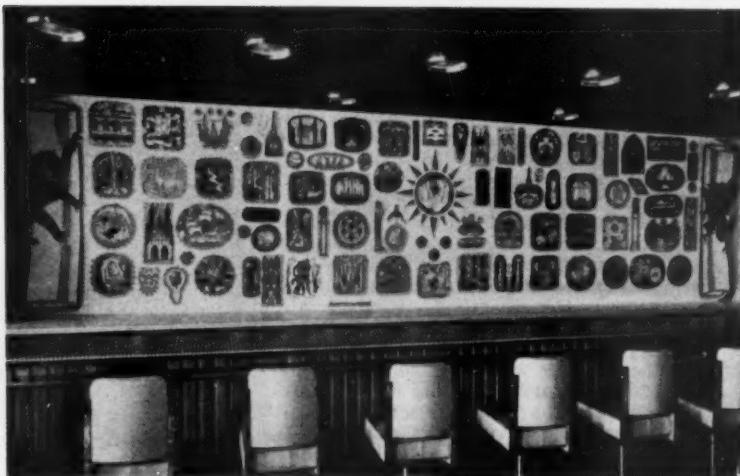
**Armstrong ACOUSTICS**

ARMSTRONG CORK COMPANY LTD., ACOUSTICS DEPARTMENT, KINGSBURY, LONDON N.W.9. Tel: COLindale 7080 AT.21

- The 1960 Public Works and Municipal Services Congress and Exhibition will take place at Olympia, London, from November 14 to 19. All available space in the three halls of Olympia has already been booked.
- Duncan Tucker (Tottenham) Ltd., manufacturers of prefabricated kitchen units, wooden window and door frames, etc., recently suffered a fire that destroyed a three-storey block at their Pymore Mill, Bridport, Dorset. Despite this setback to their newly reorganized production programme, their joinery section is unaffected and every effort is being made to utilize this in helping to meet existing orders for kitchen units.
- Expandise Ltd. show a group net profit for the 53 weeks ended April 2, 1960, of £126,582, compared with the previous year's result of £85,567. The annual dividend is being increased from 15 per cent to 20 per cent, with the issue of a final of 13½ per cent.
- The Midland Tar Distillers Ltd. show a net profit for the year ended March 31, 1960, of £206,805. There is to be an ordinary dividend of 12½ per cent.
- Mr. Ralph J. Asheton has been appointed to the board of Borax Consolidated, the operating subsidiary of Borax (Holdings).
- A contract for supplying prestressed concrete pressure pipes and spun iron pipes has been placed with the Stanton Ironworks Co. Ltd. by the Cardiff Corporation Waterworks. Value of the contract is £400,000 approximately and the pipes are to be used in connection with the Llandegfedd water supply scheme.
- F. Wrighton & Sons (Associated Companies) Ltd. show a group net profit of £42,722 for the year ended March 31.
- The 1960, compared with the previous year's result of £5,100. The dividend is being raised from 16½ per cent to 20 per cent.
- The Ministry of Works is to revise its procedure for listing possible contractors for its constructional work. All companies of suitable standing are to be told how they may get on to the Ministry's approved list from which concerns are selected for invitation to tender. The Ministry will be sending a note to contractors in September.
- Donald Macpherson & Co. Ltd., paint, varnish and lacquer manufacturers, have entered into an agreement to acquire the issued share capital of the three associated private companies, L. G. Wilkinson, Gerald Carter & Co. and Wilkinsons Paints Ltd.
- The Neuchatel Asphalte Co. Ltd. show a trading profit for the year ended December 31, 1959, of £376,024, compared with the previous year's result of £285,294. A final ordinary dividend of 5 per cent is to be paid, making a total distribution for the year of 10 per cent, less tax.
- Howard Farrow Ltd., civil engineering and building contractors, have moved their head office to Highfield Road, Golders Green Road, London, N.W.11. Their telephone number, MEAdway 3232, is common to both the head office and the plant depot.
- Fablon Ltd. have appointed Mr. John B. Henderson as product manager of their building division.
- Bambergers Ltd. have moved their head office, and that of their subsidiary and associated companies, to a new building at Gladesmore Road, South Tottenham, London, N.15 (telephone: STAmford Hill 8040).
- Mr. H. G. W. Chichester-Miles has been elected President of the Federation of British Rubber and Allied Manufacturers for 1960-61. Mr. S. D. Sutton and Mr. C. H. M. Baker are to be vice-presidents for the same period.
- Lloyd Instruments Ltd. have acquired the business of H. Millington which will continue to operate under that name from 10 Spencer Passage, London, E.2. Millingtons produce purpose made instrument cases, cabinets and benches.
- Wolf Electric Tools Ltd. have appointed Mr. Hans Mäder, of Bürenstr. 33, Lengnau b. Biel, Switzerland, as their sales supervisor for Switzerland.
- A.E.I.-Hotpoint Ltd. are to open a Home Centre in London, early in December. The Centre, designer Hulme Chadwick, A.R.I.B.A., will be situated on the corner of Oxford Street and John Princes Street. Besides displaying the Group's domestic appliances, advice and information will be obtainable from the Centre on all aspects of home economy.
- The offer by Gabriel Wade and English Ltd. for the preference shares of L. Hall (Edmonton) Ltd. has now become unconditional.
- G. Brady & Co. Ltd., shutter, fire-proof door and lift makers, have agreed to acquire all the issued share capital of David T. Pickett and Sons (Engineers) of Cardiff.
- A report and recommended terms are being prepared for the proposed merger of the Hackbridge and Hewittic Electric Co. Ltd. and Switchgear and Cowans Ltd.
- The Cork Manufacturing Co. Ltd. show a group profit for the year ended April 30, 1960, of £117,186, compared with the previous year's result of £56,002. A final dividend of 8½ per cent has been proposed, making a total distribution of 13½ per cent for the year.
- Millars' Timber & Trading Co. Ltd. show a net profit for the year ended December 31, 1959, of £98,251. An ordinary dividend of 8 per cent it to be paid.

## ADDENDUM

Versatile Fittings (W.H.S.) Ltd., manufacturers and suppliers of Vizusell equipment, wish to make it clear that the illustrations of a typical library unit shown in their advertisement of July 13 do not represent the actual units used in the new Holborn Library. A new advertisement in this issue illustrates the fittings as designed by the Holborn Borough Council's Architect's Department, under the direction of the Borough Architect, Mr. S. A. G. Cook, A.R.I.B.A., and incorporating the Vizusell system of suspension. This is the first new modern central library to be opened in this country since the war. The official opening will take place in November.



*In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer*

#### Anti-Corrosive Compound

A new liquid zinc anti-corrosive composition has been developed by this company for use on iron, steel and other metal surfaces. The new preparation has a base of chlorinated rubber and zinc dust of small particle size. It is claimed to be free from rapid settling out and requires no more than normal stirring before use. The preparation can be applied by brush, spray or by dipping, over rusted surfaces or even over surfaces which have been previously painted (subject to some scraping or wire brushing). It is stated to be of above average flexibility, abrasion resistant and capable of withstanding a dry temperature of 200 deg C and a wet temperature of 120 deg C. It is also claimed to possess fire retardant properties, to prevent rust creep and to be impervious to polluted atmosphere, sea and fresh water. It may be used as a single coat system in the protection of structural steelwork and for general industrial use. Being non-toxic it is also suitable for the protection of water tanks and cisterns.

*MacCleaster Chemical Co. Ltd., 8 Great Tower Street, London, E.C.3. Mansion House 4555.*

*Readers' Information Service, Ref. A. Date 10/8/60.*

\*

#### Vitreous China Suite (B)

The Trimline vitreous china suite is the latest addition to the Standard range of sanitary appliances. It comprises a wash basin and pedestal together with a low level wash-down water closet. The basin is also available without the pedestal and supported on vitreous enamelled cast iron brackets. It has back and side skirtings and a raised shelf space at the rear corners. The front of the bowl is bowed. The Trimline closet has a wash-down bowl and the cistern contains a vitreous china siphon. Both items are available in white and in the range of five Standard colours.

*Ideal Boilers & Radiators Ltd., Ideal House, Great Marlborough Street, London, W.1. Gerrard 8686.*

*Readers' Information Service, Ref. B. Date 10/8/60.*

\*

#### Free-standing Screen Fire (C)

The new G.E.C. free-standing screen fire has been designed to cover an existing fireplace opening. It is a combined convector heater and Cosyglow fire. Three switches are provided, one controlling a 500W convector and one for each of the two 1kW elements of

the Cosyglow fire. By the use of these three switches, five different loadings are available providing varying degrees of heat. The Cosyglow fire has a dispersive reflector giving heat over a wide angle, slightly more heat being thrown to the sides than directly in front of the fire. The fire has a visor guard that can be lifted for cleaning but afterwards automatically falls back into place. The convector is illuminated when switched on. Catalogue No.: D2810. Finish: stove enamelled hammered texture. Price (including P. Tax): 15gn.

*The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2. Temple Bar 8000.*

*Readers' Information Service, Ref. C. Date 10/8/60.*

\*

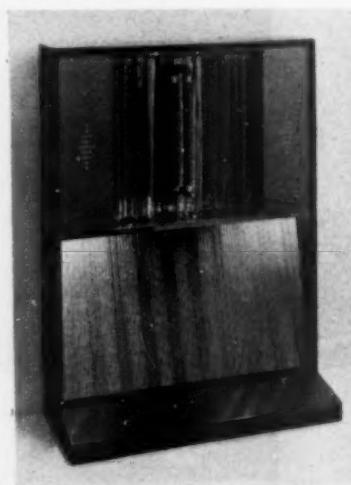
#### Automatic Water Systems (D)

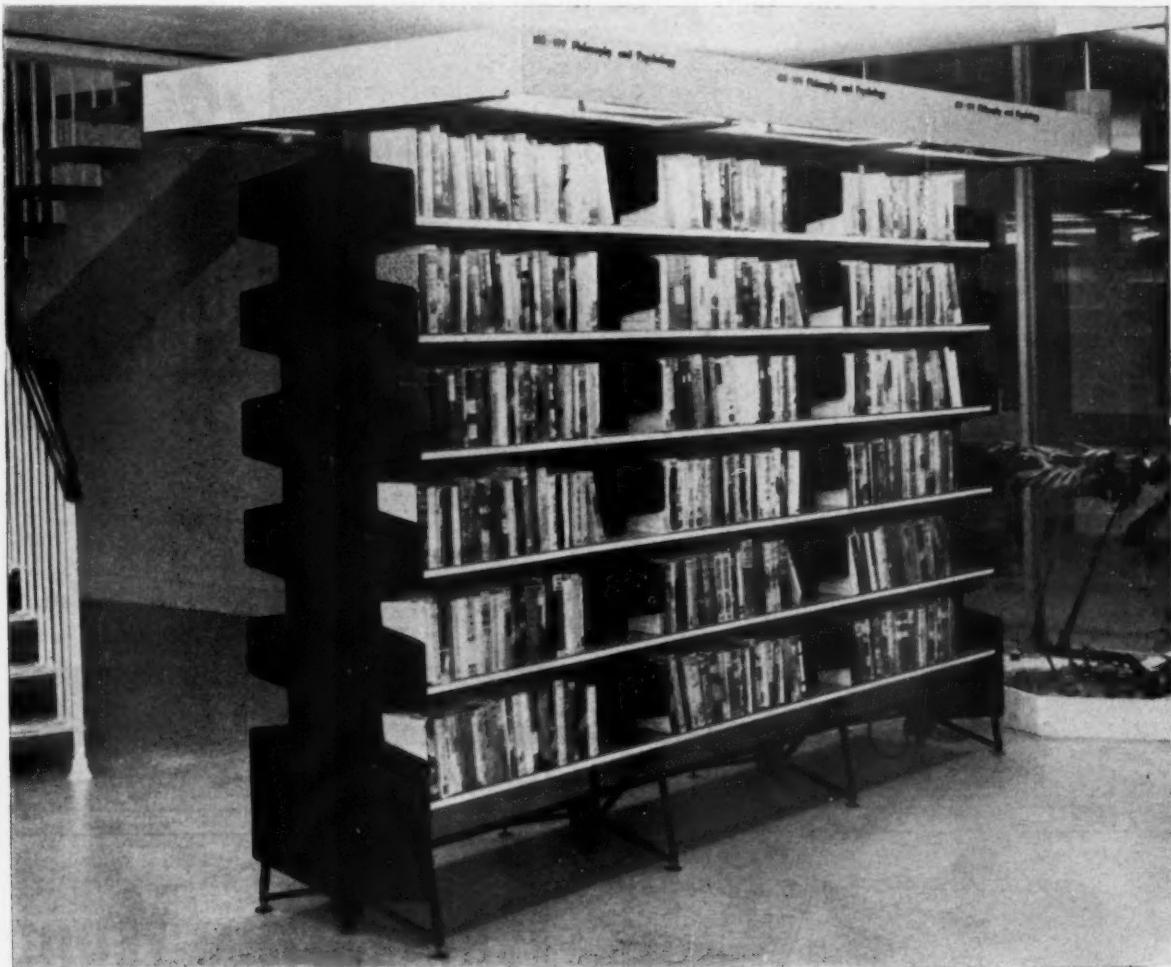
This company is now marketing a range of equipment enabling fully automatic pressure operated water supply systems to be installed in private houses, farms and institutions. The purpose of the system is to make the owner independent of mains water supply and it consists briefly of a well, a pump and a small pressure tank. No water storage tank is required. Delivery pressure of the water is controlled by means of a regulator on the pump, and water is pumped from the well into the pressure tank until the air in the tank is compressed by the water to a point when the pressure of the air is equal to the delivery pressure required. At this point, the pump automatically cuts out and the water is expelled by air pressure through the house pipes. When the water level in the tank and the pressure of the air above it, drops below the regulated figure, the pump will automatically start up to re-create the balance. Six sizes of pumps are available, suitable for well depths up to 180ft, with capacities up to 2,250gal/hr and for delivery pressures up to 70lb/sq in. Submersible pumps are also available for wells from 180 to 400ft deep, for delivery pressures up to 80 p.s.i. and capacities up to 700 g.p.h. are obtainable. Pressure tanks range in size from 2 to 30gal capacity. Pumps are quiet in operation and self priming at all depths. They incorporate a double capacity air-separation chamber, a multi-valve diffuser and a U-Cup impeller seal which does away with the need for wear rings and prevents leakage from the pressure to the suction side. The pumps are self lubricating and the bronze impellers are of the enclosed type to resist rust and corrosion. All parts of the new



*The Trimline vitreous china pedestal wash basin and low level suite (B)*

*The G.E.C. free-standing screen fire (C)*





# The New Central Holborn Library

Bookstacks designed by the Architects' Department of Holborn Borough Council  
under the direction of the Borough Architect  
S. A. G. COOK, A.R.I.B.A.

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are Nature's own supreme protection for the home of man against the vagaries of time and weather. Quarried from the ruggedly beautiful Westmorland Mountains near Coniston—the land that Ruskin knew and immortalised—these famous slates and stone are renowned for their extreme durability and the colourful picturesqueness of their Light Sea Green, Olive Green and Mixed hues.

**SPECIFICATION.** The roof to be covered with Broughton Moor Light Sea Green Best Quality (coarse grained) Westmorland Slates, to be obtained from the Broughton Moor Green Slate Quarries, Ltd., Coniston, The Lake District, Lancs., in random sizes about 18" to 9" long, proportionate and random widths, laid to a 3" lap in regularly diminishing courses from eaves to ridge. Each slate to be securely fixed by two stout copper nails, and wide slates are to be used on the hips and verges. Alternatives : Seconds, Thirds, Special Peggies ; Olive Green and Mixed Shades. Ridging : "Bromoar" purpose-made of crushed and moulded slate from the same veins is recommended.

### TECHNICAL INFORMATION CONCERNING BROUGHTON MOOR WESTMORLAND GREEN SLATES

QUALITY	LENGTH (Random widths)	COMPUTED COVER in sq. yds. per ton (3" lap)	APPROX. WEIGHT Per square (3" lap)—cwt.
BESTS	from 18" to 9"	24	9
SECONDS	from 18" to 9"	20	10½
THIRDS	from 18" to 12"	18	12
SPECIAL PEGGIES	from 15" to 7"	22	9½
SECOND PEGGIES	from 10" to 7"	20	11

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## new products

*continued*

The Architect and Building News, 10 August 1960 191

system's range of pumps are interchangeable with the American Barnes range. An automatically operated petrol engine is being developed for sites where electricity is not available. The largest standard pump measures only 19½in by 12½in by 8½in. Tanks may be mounted either vertically or horizontally. A typical Firth Cleveland water system unit is illustrated, complete with 30gal tank, mounted horizontally.

*Firth Cleveland Pumps Ltd., Earl Shilton, Leicestershire.*

*Readers' Information Service, Ref. D. Date 10/8/60.*

\*

### New Polystyrene Telephone

The Aristocrat FL 50 telephone is moulded in Styron 475 polystyrene and has elegant contoured lines. It is available in five basic colours and the handsets can be interchanged so that two-tone finishes are available. The telephone is light in weight and tough enough to withstand extremely hard usage without affecting the surface finish. The outer dial ring is so placed to facilitate letter and figure recognition, whether the user is sitting or standing. The handset cradles easily in the hand and the extensible cord will not kink. This cord is only 12in long in the rest position but will stretch to over 4ft. There is a hand recess moulded into the rear of the telephone to simplify holding or carrying the unit. The volume and tone of the bell can be adjusted so that a high or low pitch ring is obtainable. Each gong has a separate tone so that by adjustment the telephone will ring on one gong only. Moreover, both gongs can be isolated to produce a buzzer effect. Colour finishes: dawn grey, olive green, black, ivory and sand beige.

*Autophone Ltd., Autophone House, 73 Great Peter Street, London, S.W.1. Abbey 6242.*

*Readers' Information Service, Ref. E. Date 10/8/60.*

\*

### Hand Washing and Drying Units (F)

This company is now manufacturing a range of hand washing and drying units. They are constructed throughout from heavy duty glass reinforced plastic, self coloured right through and bonded to a welded steel-angle frame. The soap system is through a 2gal glass-fibre tank which is an integral part of the main moulded shell. Liquid soap feeds to a push operated, stainless steel, foam producing dispensing head. There is a water cock operated by foot pressure on a stainless-steel button control connected to a non-concussive valve. The water feeds through a standard stop-cock and through a spray head inset in the bottom of the wash bowl. The drying system is foot

operated by a push button complementary to that for water, which controls a mercury switch. This switches a high speed turbine blowing through a 2.8kW heater and hot air is piped to an outlet in the roof of the drying aperture. The element can be removed separately for maintenance purposes in about 45 sec or the whole blower unit may be removed in about the same time. The soap system will provide approximately 1,500 washes per gal and the time of drying hands is estimated at about 25 sec. Lugs are provided on the steel frame for fixing to the wall or to the floor if desired with ½in Rawlbolts. All steel parts are metal sprayed against corrosion and the unit can be supplied in a variety of pastel colours with white bowls and side panels. Overall dimensions: 4ft 6in high by 3ft wide by 1ft 2in deep. Price: £89 12s 6d. Modifications to this standard model are at present being prepared and these include a unit containing washing and drying facilities in each bowl, allowing two people to be accommodated at the same time. This unit has the same dimensions and costs £148. A standard twin bowl unit is illustrated with the side panels detached, showing the turbine, heater unit, frame and fixing lugs.

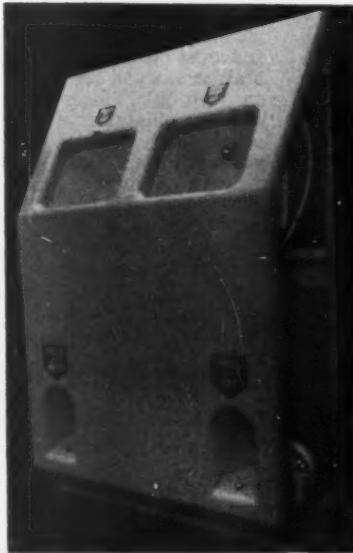
*The Bryn-Martyn Co. Ltd., Northwich, Cheshire. Northwich 4304.*

*Readers' Information Service, Ref. F. Date 10/8/60.*

\*

### Modular Partitioning (G)

Interlock is the name given to a new form of modular partitioning. The flexibility of this partitioning lies in the design of its component parts. One simple wood moulding is used to form both uprights and cross-members and together with a floor plate, these form a framework which can be filled in with fabricated panels or with glass. Doors can be fitted wherever they are required. The floor plate will accommodate electrical wiring and the skirtings are separate in order to allow them to compensate for any variation in floor line. Uprights and cross-members are fixed to each other by a simple locking device. The lower panels fit into a groove formed by the floor plate and skirtings and are locked firmly in position by the moulding of the uprights and cross-members. Second and third height panels are simply locked on all four sides by the uprights and cross-members. Provision is made for either single or double thickness glazing in any position as an alternative to solid panels. Pre-cut lengths of beading are simply pinned to the uprights and cross-members and the sheets of glass held tightly in position by setting them in plastic. Ceiling fitting is effected by employing built-in jacks in the uprights so that adjustments can be made to take up any variation in ceiling line. Any resultant gap is concealed by ceiling panels similar to



*Top: Twin bowl hand washing and drying unit (F)*

*Centre: Firth Cleveland water system unit (D)*

*Below: Interlock modular partitioning (G)*



the skirtings. Door frame mouldings are designed to marry with the uprights and cross-members and are secured by brass screws and cups. Doors are hung on "lift-off" hinges for easy dismantling. Finishes: fabricated wood panels finished in a range of vinyl plastics or in light oak, teak or mahogany veneers. Panel sizes: 8ft by 4ft, 4ft by 4ft and 2ft by 4ft. Interlock partitions can be installed as free standing with the use of a specially designed capping.

*The Shannon Ltd., Shannon Corner, New Malden, Surrey.  
Readers' Information Service, Ref. G. Date 10/8/60.*

★

**Trailer Mounted Pump (H)**

A new trailer mounted version of the UVS2 Univac pump has now been produced. It is a 3/3.5 h.p. diesel-powered self-priming centrifugal pump, incorporating a rotary vacuum unit. This arrangement enables it to pump on shore at a maximum suction lift of 26/28ft. The wearing plates, casing and three-bladed impeller are all made of cast iron. Heavy duty coarse thread hose unions to B.S. 1782 specification are used for suction and delivery branches and these have six threads per inch to facilitate coupling of the 2½in bore 3-ply corrugated suction and discharge hoses of reinforced rubber and canvas construction. The pump is therefore suitable for operating a small well point dewatering system, in addition to handling free flowing slurries containing up to 1in dia solids and for use where instantaneous self-priming is required. The pump has an output, at 1,500 r.p.m., of 8,000 g.p.h. at a total head from all causes of 20ft and an output of 3,000 g.p.h. at 39ft. At 10ft vertical suction lift and nominal delivery, the capacity is 6,500 g.p.h. and 3,300 g.p.h.

at 26ft suction lift. The pump is close coupled to an air-cooled four stroke direct injection Lister LD1 diesel engine which develops 3 b.h.p. at 1,500 r.p.m. and 3.5 b.h.p. at 1,800 r.p.m. There is a totally enclosed C.A.V. fuel pump and injector which is coupled directly to a centrifugal governor mounted on the crankshaft. The trailer mounting has a rigid bedplate, allowing the pump to be detached and manhandled into confined spaces. The trailer is mounted on 16in by 14in pneumatic tyred wheels. There is a towing bar with 2in ball type coupling and a simple jack stand. Mudguards are made of rubber. Overall measurements: 7ft long by 3ft 8in wide by 3ft 8in high. Weight: 758lb.

*Henry Sykes Ltd., 53b Southwark Street, London, S.E.1.*

*Readers' Information Service, Ref. H. Date 10/8/60.*

★

**Stanley Screwdrivers (I)**

A new range of Stanley screwdrivers has been produced incorporating modern bolster construction in the traditional style cabinet handle. The blade is securely locked into the handle and it is claimed will not twist under excessive strain. The entire length of the blade is tempered in order that the screwdriver will stand up to very rough usage. All handles are turned from top quality steamed beech and finished in matt black cellulose. The relation of handle and blade size has been designed to lessen the possibility of overdriving and the consequent damage to screws. Five sizes are available, ranging from 3in to 10in. Price: from 4s 6d to 8s.

*Stanley Works (G.B.) Ltd., Rutland Road, Sheffield 3. Sheffield 27424.*

*Readers' Information Service, Ref. I. Date 10/8/60.*

**Vibrating Tandem Rollers (J)**

This company has been appointed sole U.K. agent for the Scheid Vibrating Tandem Rollers which are of Continental manufacture. These rollers are powered by air-cooled diesel engines and incorporate hydraulic steering, underhood sprinklers for front and rear rollers and spring-adjusted scrapers. It is claimed that the handbrakes are sufficiently powerful to hold the roller on a slope and that the rollers will work on gradients of up to one-in-four. Two models are available, these being type 20 which has a working weight of 4,400lb and a rolling width of 35½in, and type 25 with a working weight of 9,500lb and a rolling width of 43½in. Water ballast can be used to increase these working weights to 5,000lb and 11,000lb respectively.

*C.E.T. (Equipment) Ltd., Burlington Works, Abbey Road, Park Royal, London, N.W.10.*

*Readers' Information Service, Ref. J. Date 10/8/60.*

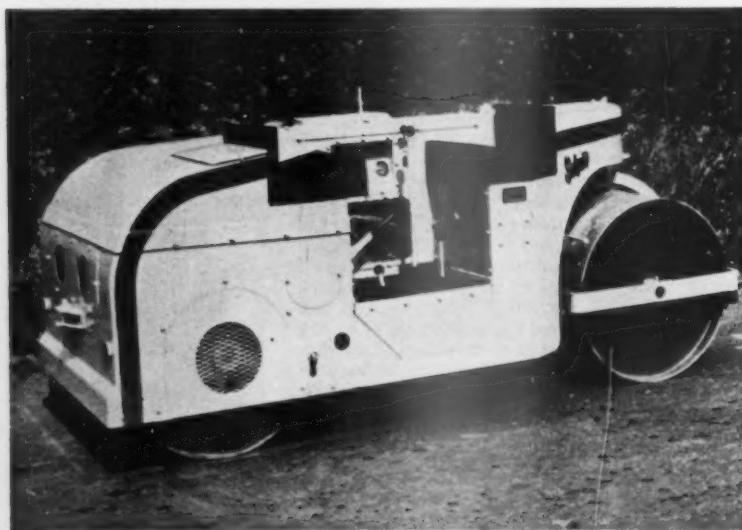
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**Repairs to Pre-cast Concrete**

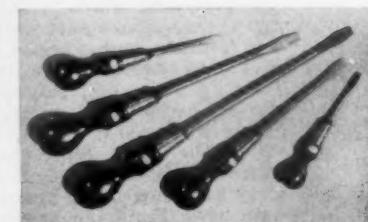
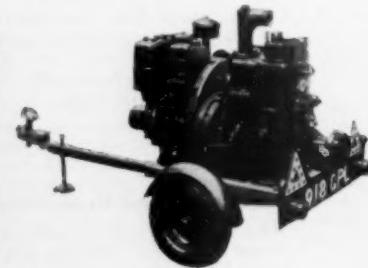
Corro-Proof "Ply" Cement — "B" Grade has been developed for the purpose of repairing and bonding pre-cast concrete. The product is compounded from an unsaturated polyesters resin and it is claimed that when fully cured the cement bond is stronger than the actual concrete. It is supplied as a two-part pack, requires no special experience in application and is recommended by the makers for repairing broken pre-cast concrete, bonding sectional concrete piles and filling cracks in post-stressed cast concrete.

*Corrosion Technical Services Ltd., Sunleys Island, Great West Road, Brentford, Middlesex, Isleworth 8445.*

*Readers' Information Service, Ref. K. Date 10/8/60.*



*Above: The Scheid vibrating tandem roller, by C. E. T. (Equipment) Ltd. (J). Top right: UVS2 Univac pump by Henry Sykes Ltd. (H). Bottom right: New screwdrivers by Stanley Works (G.B.) Ltd. (I)*





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**Lowest running costs.** The big news in central heating these days is the amazing cheapness of the solid fuel systems. For example, the average weekly running cost for a two- or three-radiator system can be as little as 9/9d! Just compare that with oil, gas and electricity—see chart on right.

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6 or 7 radiators and hot water ▾			
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COKE in independent boiler	9/- per cwt	9/9d	15/-
<b>SMALL ANTHRACITE</b> in gravity feed boiler	12/- per cwt	—	14/1d
<b>GAS</b>	1/4d therm plus, say, 2/8d a week standing charge	16/1d	23/6d
<b>ELECTRICITY</b>	1d unit (No standing charge included)	18/2d	29/10d
<b>OIL</b>	1/5½d gallon	12/10d	22/8d

\* plus 2/- to 6/- a week maintenance cost.

**Write for FREE booklet** on Central Heating and list of other technical publications to the Coal Utilisation Council, 3 Upper Belgrave Street, London, SW1. Also available 'Central Heating for Houses', a complete 120-page illustrated survey of all the various systems available, from the open-fire-and-back-boiler to the small pipe system. Copies 2/6d each.

The cheapest  
central heating  
there is—  
**SOLID FUEL**



ISSUED BY THE COAL UTILISATION COUNCIL





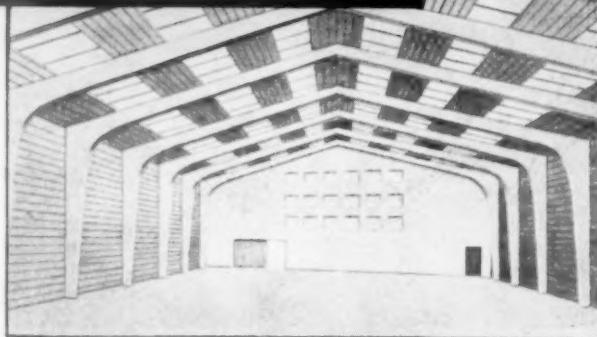
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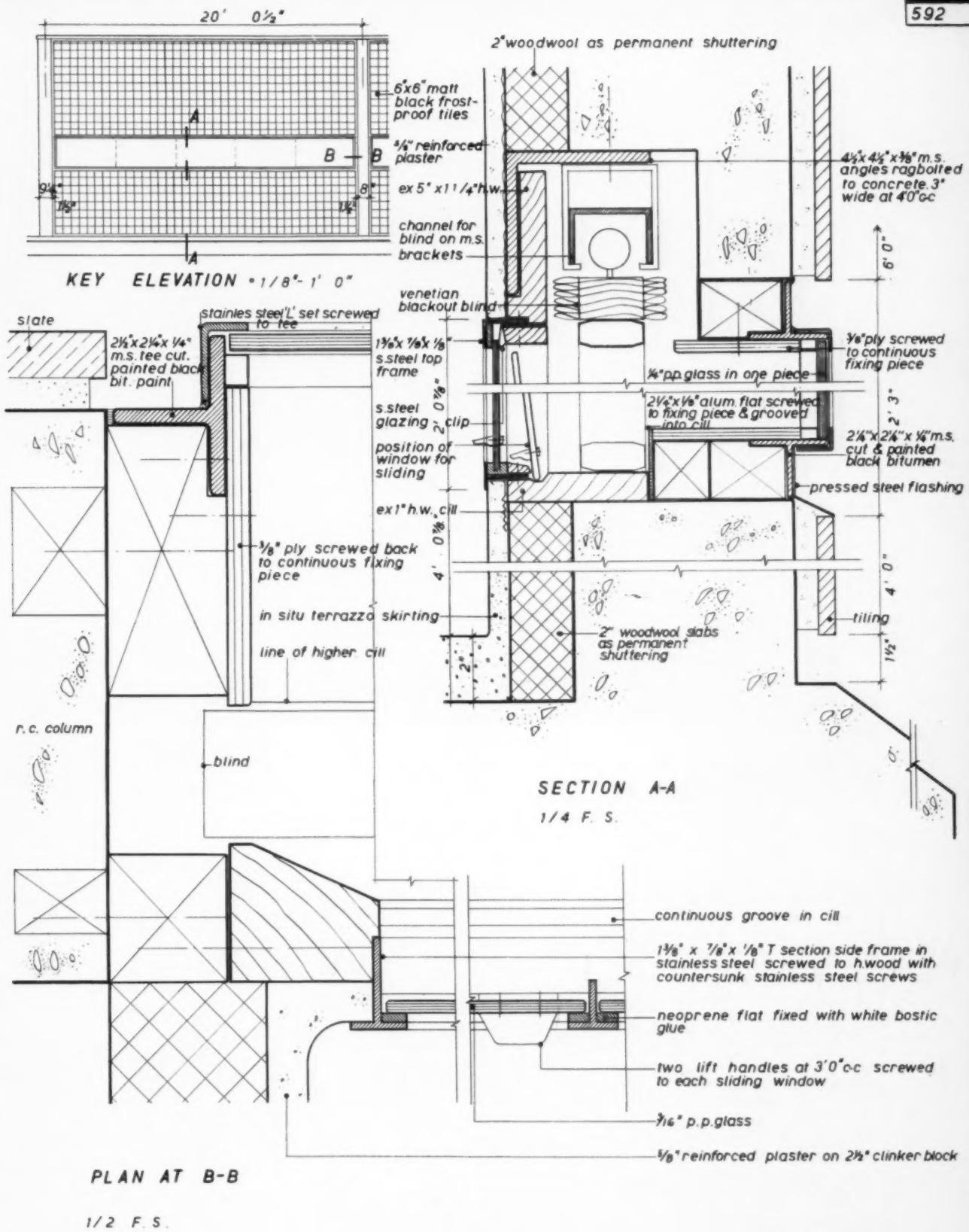


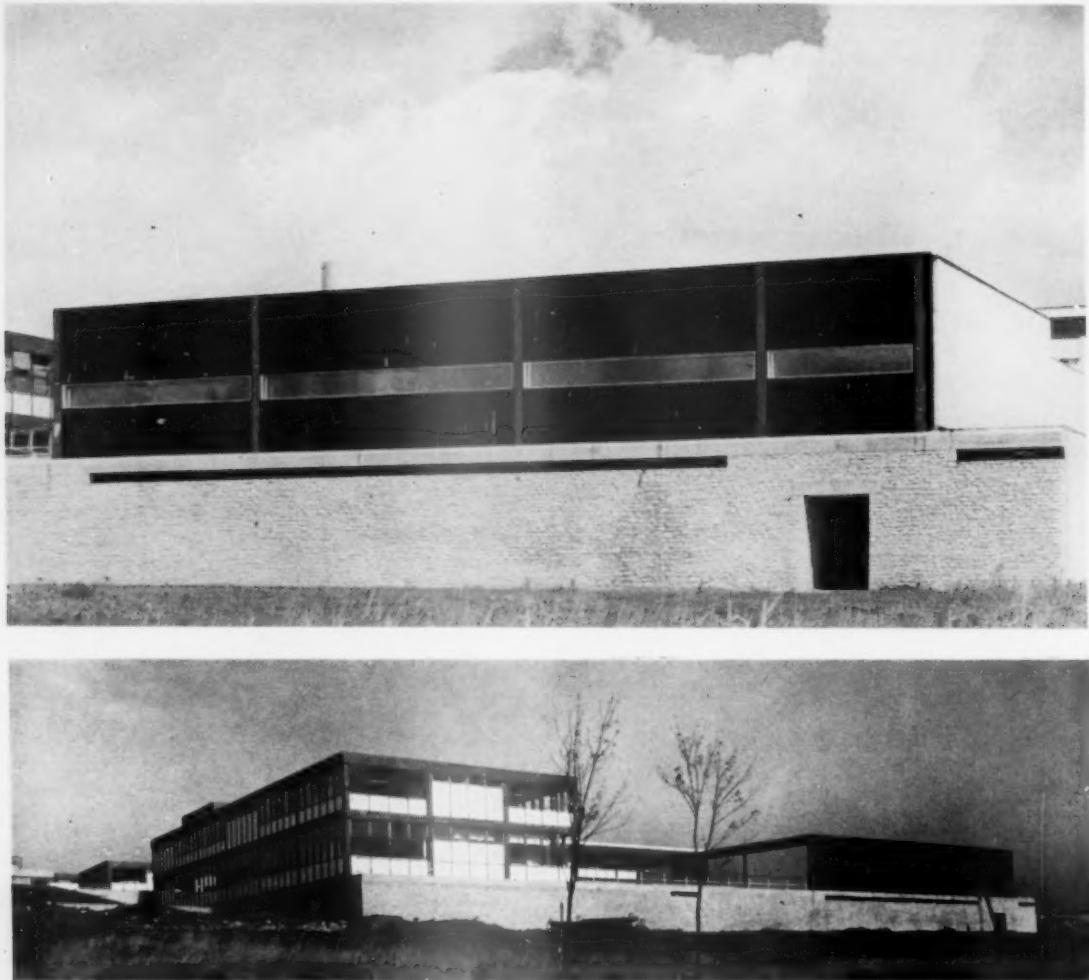
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Brochure from:- **ERNEST BATLEY LTD.**  
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*The operating theatres in the Princess Margaret Hospital at Swindon are air-conditioned and are therefore not provided with opening lights. The strip windows are double glazed, the outer sheet of glass being in one piece nearly 20ft long. The inner window is divided into five panes each of which is provided with two bronze lifting handles. These windows stand in a neoprene channel and are held at the head between a neoprene foam flat and a sprung stainless steel clip. To slide the windows are lifted and dropped into a groove set 1½in behind the channel. The handles are designed to clear the mullions when they slide in this position. Architects : Powell and Moya*

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**Antrim C.C.** Erection of teachers' residence and garage at Moorfields, near Ballymena. Apply to Kenneth A. MacCormac, Director of Education, 475 Antrim Road, Belfast.

**Banbridge, Co. Down.** The Ministry of Housing has approved the erection of 76 houses at Edenberry Park.

**Belfast.** The Ministry of Commerce, Northern Ireland, is to erect a factory on the Dumbury Industrial estate. Apply to Room 28, Chichester House, 64 Chichester Street, Belfast.

The Antrim county library committee is to erect library at Anderstown. Apply to Northern Ireland Housing Trust, 12 Hope Street, Belfast.

**Birkenhead Corporation.** The housing committee has approved layout plans for 12 three-bedroom houses in Willowbank Road.

**Bournemouth Corporation.** The town planning and building committee has granted, subject to the submission and approval of detailed plans, planning permission for an 18-storey hotel and conference centre with eight shops, restaurant, bars, banqueting hall, dance floor and garage accommodation in Exeter Road.

**Brighton Corporation.** Tenders are invited for the public conveniences at Selham Drive and Beatty Avenue, Parkside estate, Coldean, estimated cost £2,750.

The education committee has approved plans for (1) improvements at Elm Grove school, estimated cost £10,500, tenders are invited; (2) first stage of a primary school in Lustrells Avenue/Tremola Avenue, Saltdean, estimated cost £20,000 plus £5,000 for youth facilities, tenders are invited.

**Camberwell B.C.** has approved in principle sketch plans for the conversion of the chapel in Caroline Gardens into a little theatre.

The planning and development committee has approved a scheme for a library, assembly hall and public convenience in the Old Kent Road/Peckham Park Road.

**Carlisle Corporation.** The Ministry of Education has approved a scheme for the extension of Harraby secondary school to eight-form entries, estimated gross cost £93,703.

The education committee reports that the following projects are included in the minor capital works programme for 1961-62. Erection of (a) assembly hall at Petteril Bank primary school, provisional estimated cost £12,500; (b) assembly hall/dining room, staff room and toilets at Upperby primary school, cost £15,000; (c) assembly hall/dining/gymnasium at Curock secondary girls' school, cost £14,000; conversion of corridor to provide workshop, laboratory and classroom at the technical college, cost £6,000.

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**Chester C.C.** The borough engineer and surveyor is to prepare detailed drawings and to invite tenders for modernizing the changing accommodation of the small swimming pool and adapting first floor accommodation in the public baths for use as ladies' personal baths, estimated cost £4,500.

**Chester C.C.** The housing committee has approved a scheme for three blocks of 11-storey flats, four blocks of four-storey flats and maisonettes, two three-storey blocks of houses, maisonettes and flats and two two-storey blocks of flats including six shops and car ports, tenders are to be invited.

**Croydon Corporation.** The Ministry of Education has approved a building project of the Croydon Boys' Club for buildings to be erected at the junction of Whitehorse Road and Boulogne Road, revised total estimated cost £15,950.

**Dudley Corporation.** The housing committee has approved (1) plans for 80 garages on the Saltwells estate, tenders are invited; (2) a scheme for 13 garages in Hawkesley Road.

**Ealing B.C.** The education committee has approved a plan for the erection of Oldfield and Wood End community centre.

The baths, Victoria Hall and public buildings committee has approved a scheme for a swimming pool near Northolt Station.

**Hertford B.C.** A scheme for 20 flats for elderly people has been approved, cost £43,880.

**Herfordshire C.C.** has approved the additional expenditure, not exceeding £906, in connection with the major extensions to Letchworth grammar school.

**Lewisham B.C.** Tenders are invited for the erection of 32 flats and 17 garages in Corona Road.

The housing committee has approved the erection of four one-unit garages in Ermine Road, total estimated cost £1,205.

**Lisburn, Co. Antrim.** Erection of assembly hall/classroom block at the Wallace high school. Apply to Ferguson & McIlveen, Chartered Architects, 15 College Gardens, Belfast.

**Maidstone Corporation.** The public health committee invites tenders for the demolition of the existing conveniences and coffee stall and the erection of new conveniences at Fairmeadow.

**Manchester C.C.** The housing committee has approved a scheme for 15 dwellings in Wood Street on the Langley estate.

**Mansfield Corporation.** The housing committee is to invite tenders for (1) eight aged persons' dwellings in Ruskin Road/Abbott Road; (2) 22 three-bedroom houses in Gas Hill and Crow Hill.

**Sedgley U.D.C.** The housing committee has approved layout No. 2 for 14 pairs of houses and garage space for approximately 30 cars.

**Southwark B.C.** The housing and town planning committee invites tenders for 89 flats and maisonettes as stage III of the Alberta Street housing scheme.

**Stoke Newington B.C.** The public baths committee has approved plans for the proposed laundry on the site of the old town hall.

**St. Pancras B.C.** The planning and housing development committee has approved in principle erection of (a) 14 three-storey blocks comprising one bed-sitting room, 11 two-bedroom and three three-bedroom flats, five four-storey blocks of one bed-sitting room, 15 two-bedroom and four three-bedroom flats in the West Kentish Town development area; (b) multi-storey block comprising 24 one-bedroom and 48 two-bedroom flats. Provision is also made for 118 garages, parking spaces, tenants' stores, etc., estimated cost £772,755.

**Tynemouth Corporation** has approved a scheme for a cleansing and transport department including garages, workshop, offices and stores in East Percy Street/Northumberland Street.

Tenders are to be invited for the Coast Road branch library.

**Wood Green B.C.** has approved outline plans for (a) garage in Cline Road for Standard Bottle Co. Ltd.; (b) basement, ground floor shop and five stories of offices above in Station Road, Victor Bloom & Partners for Trustees of Lowry (Dcd); (c) extension of shop at 26/36 High Road for Vine & Vine.

**York Corporation.** The housing committee has approved layout plans for two shops and two flats on the Windsor Garth site.

The planning committee has approved an outline proposal for a petrol service station with two shops in Gale Lane/Moor Lane.

## SUBMISSIONS FOR PLANNING AND BYE-LAW APPROVAL

**Battersea B.C.** Plans submitted for (1) extension to Arding & Hobbs Ltd., departmental store in Ilminster Gardens; (2) rebuilding of the Gardener's Arms public house in Chatham Road.

**Birkenhead Corporation.** Plans submitted for (1) erection of (a) sheet metal works and electric sub-station in Market Street for Thermotank Ltd.; (b) 13 one-unit garages in Rake Lane, Upton, C. L. J. Cadman for E. Atkinson Ltd.; (c) three-storey block of 12 flats in Meadoway, Upton, submitted by O'Donahue & Wilson for 1958 Houses Ltd.; (d) 159 dwellings and 80 garages in Houghton Road, Ford Way and Shortfield Road for the corporation; (e) 85 housing units and 35 one-unit garages in Ford Road, Ford Way and Houghton Road; (f) bank with living accommodation over and one detached house with garage in Village Road, submitted by H. J. Rowse for Midland Bank Ltd.; (g) 12 pairs of semi-detached and four detached houses and garages on Holmlands estate, Stanley Baines & Dallow for Boultons (Bebington) Ltd.; (h) 102 dwellings and garages and outline for 90 flats and garages on Arrows Park estate, Pool Lane for Sir Robert Lloyd & Co. Ltd.; (2) extension to workshop in Vine Street/Brook Street, submitted by E. F. Blakeley & Co. (Liverpool) Ltd. for Fusion Welding Co. Ltd.

**Bournemouth Corporation.** Plans submitted for (1) erection of (a) warehouse in Haviland Road for Oswald Bailey (Southern) Ltd.; (b) block of eight flats in Poole Lane for the corporation housing committee; (c) block of 15 semi-contained flats and 12 garages in Nairn Road for Jackson & Curtis Ltd.; (d) classroom at Talbot Heath school, Rothesay Road for the Governors; (e) two blocks of six semi-contained flats and 10 garages in Surrey Road for Drewsons Ltd.; (f) factory in Wallisdown Road for D. Drake & Son Ltd.; (g) five-storey block of 20 flats with garage accommodation under in St. Margaret's Road for Mr. E. A. Cooper; (h) six bungalows and garages in Pine Vale Crescent for A. G. Jessop Bros.; (i) block of 28 flats with 11 garages under and one block of 12 flats with eight garages under in Surrey Road for Park Investments Ltd.; (j) super market in Poole Road for the Metropolitan Estate & Property Corporation; (2) amended block plan for (a) 12 semi-contained flats

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and 12 garages in Malvern Road for W. J. Flower (Bournemouth) Ltd.; (b) five-storey block of 33 semi-contained flats with 24 garages in Chine Crescent for Revenscroft Ltd.; (3) layout for erection of (a) four-storey block of 12 semi-contained flats with garage accommodation for 12 cars under in Grosvenor Road for Mr. J. Ewens; (b) 18 semi-contained flats and 15 surface garages, retention of caretaker's flat and two garages under in Talbot Avenue for Charmouth Estates Ltd.; (c) six-storey block of 19 semi-contained flats and garage accommodation for 19 cars in Wimborne Road for Richmond Hill (Bournemouth) Investments Ltd.; (d) eight bungalows in Talbot Rise for Mrs. Maidment; (e) three-storey block of 13 semi-contained flats, one maisonnette and garage accommodation under for 14 cars in Clifton Road for Mrs. M. E. Sellers; (f) four-storey block of 16 semi-contained flats with 14 garages under in Durley Road for Mr. D. McLean; (h) 22 semi-bungalows in Feversham Avenue for Butts Farm Estate (Salisbury) Ltd.; (i) five-storey block of 12 flats with garages under in Poole Road for Dr. Ross-Smith; (j) eight-storey block of 28 flats with garage accommodation for 28 cars under in Poole Road for Dr. H. Cookson; (k) four-storey block of 16 semi-contained flats with garage accommodation under in St. Stephen's Road for Mrs. Cornell; (l) 14-storey block of 54 semi-contained flats with garage accommodation under in Sandbourne Road for Manor Developments Ltd.; (4) conversion of (a) hotel in Durley Gardens into 10 semi-contained flats for Mr. J. Gordon; (b) No. 170 Seabourne Road into four shops, three offices and two semi-contained flats for Daegan Properties Ltd.; (5) extension to (a) factory in Ringwood

Road for the Aerograph DeVilbiss Co. Ltd.; (b) two factories in Wallisdown Road for Meggitt Engineering Ltd., and Saunders Patent Carding Machine Works Ltd.; (6) alterations and additions to (a) National Provincial Bank in Wimborne Road; (b) two shopfronts at 446-8 Wimborne Road for Worlds Stores Ltd.

**Brighton Corporation.** Plans submitted for (1) erection of (a) 23 bungalows and garages in Westdene Drive for the Dene

Property Co. Ltd.; (b) basement car park, ground floor shops, first to fifth floor offices and housekeeper's flat in Queens Road for Thames Estates & Investments Ltd.; (c) 12 pairs of semi-detached bungalows in Mill Rise for R. Green Ltd.; (d) light industrial factory at Lower Bevenden for West Instruments Ltd.; (e) licensed premises in Albion Street for Tamplins Ltd.; (f) 22 semi-detached chalet bungalows and four detached bungalows with garages at Bankside for South Land Development Co. Ltd.; (g) 12 chalet bungalows at Coombe Rise for General Building and Contracting Co. Ltd.; (2) outline application for (a) five-storey office block in Queens Road for Eagle Star Insurance Co.; (b) nine-storey block of 29 flats and basement park in King's Road for Brighton Residential Hotels Ltd.; (3) extension to departmental store in Baker Street for Brighton E.C.S. Ltd.; (4) reconditioning and new front to 89/90 London Road for A. A. Baker.

**Chelsea B.C.** Plans submitted for (1) erection of (a) block of three flats, offices and depot in Sydney Street; (b) three houses in Callow Street; (c) petrol filling station, service station and car park on St. John's Church site, Tadema Road; (d) two penthouses on roofs of new and existing buildings at Chester Beatty Research Institute, Fulham Road; (e) out-patients' department at St. Stephen's Hospital, Fulham Road; (2) conversion of No. 51 Cadogan Square into five semi-contained flats and one semi-contained maisonette.

**Dorchester Corporation.** Plans submitted for (1) erection of 13 houses and garages in Kingsbere Crescent; (2) conversion of 6 Linden Avenue into four flats; (3) details of nine houses with garages to be erected at Manor Park estate.



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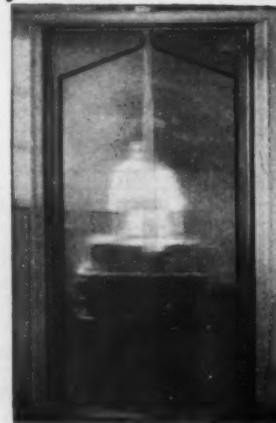
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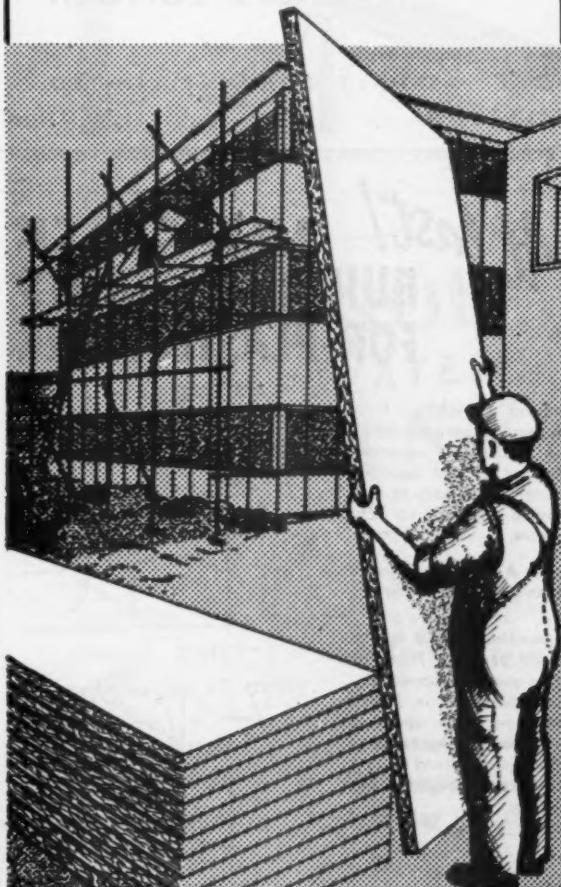
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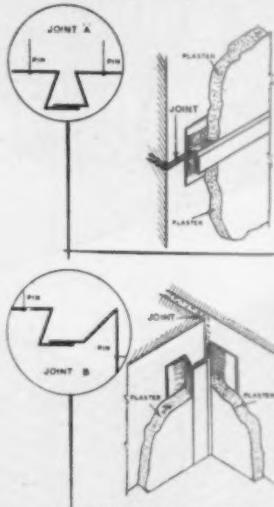
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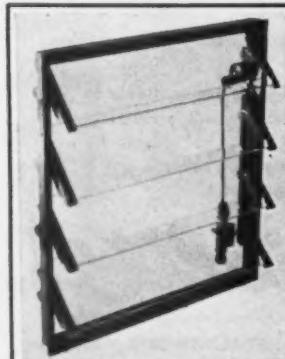
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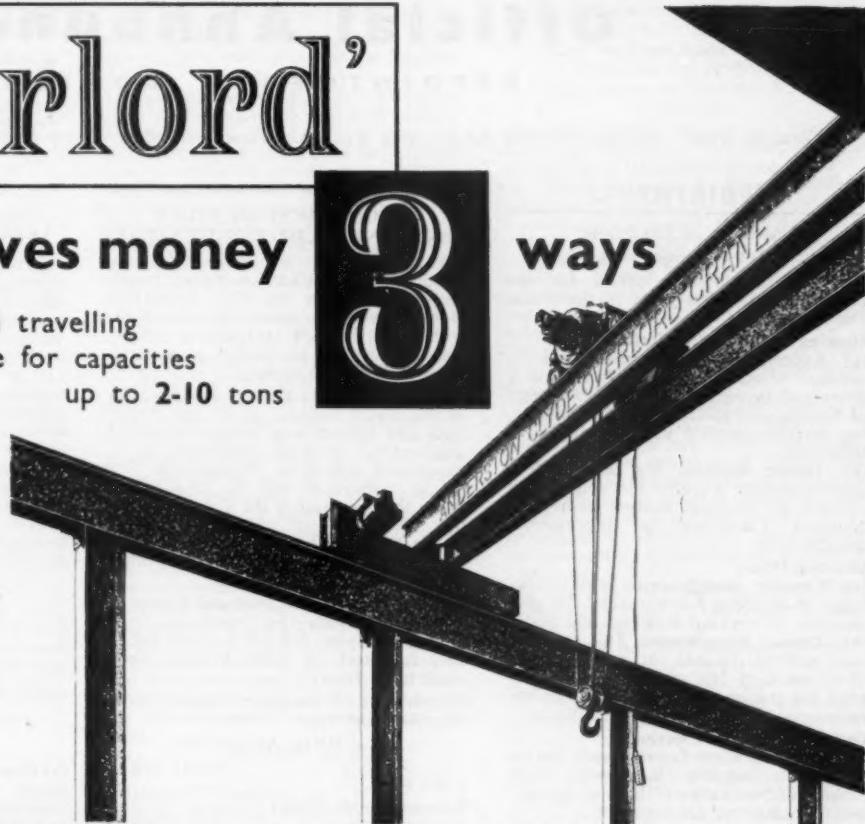
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APPLICATIONS are invited for the following additional posts in the above Department:

#### Heating and Electrical Section:

- (a) **Experienced draughtsman**, able to produce working drawings from sketch plans and layouts. Technical knowledge of heating and electrical work desirable, but draughtsmanship will be prime consideration.
- (b) **Junior assistant** for duties of a general nature. Suitable for young man anxious to continue studies leading to National Certificate or professional qualifications.

#### Drawing Office:

- (a) **Capable draughtsman**, with knowledge of Building Construction, for preparation of working drawings and plans.
- (b) **Trainee draughtsman**. This appointment will be suitable for a young man 17-19 years of age who wishes to continue his studies for professional qualifications or City and Guilds certificate.

#### Quantity Surveyor's Section:

**Assistant**, male or female, with knowledge of Quantity Surveyor's work capable of "working-up" Bills of Quantities, checking final accounts, etc.

Appointment to the senior posts above may be made either in, or leading to, the University Grade scale £624-£806 p.a.; those to the junior posts will be at commencing wages commensurate with age, education, etc.

Applications, giving educational background, examinations passed, etc., and accompanied where possible by copies of recent testimonials, should be sent to the Chief Clerk, Department of Estate Management, 74 Trumpington Street, Cambridge. [6827]

### Australia

ENGINEERS ARCHITECTS  
New South Wales

Public Service

QUALIFICATIONS: appropriate degree, diploma or institute membership (by examination).

Salary: from £A1,359 to £A2,069. Commencing rate according to qualifications and experience. Promotion positions carry salaries up to £A2,800 and beyond. Experience: civil, mechanical and electrical engineering or architectural design and supervision. Applicants will be employed in the New South Wales Department of Public Works on a wide range of engineering and architectural projects including dam, water supply, sewerage, road and bridge construction, building services and in the construction of schools, hospitals and other public buildings.

Subject to satisfactory medical report the successful applicant and family under the age of 19 years will be nominated to travel under the Assisted Passage Scheme to New South Wales.

Further details and copies of application forms obtainable from Agent General for New South Wales, 56-57 Strand, London, W.C.2. Applications close on August 31, 1960. [6852]

### City and County of Newcastle upon Tyne

#### APPOINTMENT OF CHIEF ASSISTANT ARCHITECT (GENERAL)

APPLICATIONS are invited for the appointment of Chief Assistant Architect (General) in the City Architect's Department at a salary in accordance with J.N.C. Scale "E" (£1,655 per annum, rising by annual increments to a maximum of £1,885 per annum).

Applicants must be Fellows or Associates of the Royal Institute of British Architects and should have received a sound architectural training, preferably at a recognized School of Architecture. The Officer appointed will be responsible, under the direction of the City Architect, for the control of all building work undertaken by the Department for all Committees of the Corporation other than Housing and Education.

Further details of the post and Forms of Application may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne 1.

Closing date for completed Applications: Saturday, September 3, 1960.

JOHN ATKINSON,  
Town Clerk.

Town Hall,  
Newcastle upon Tyne 1.

July 28, 1960. [6839]

### ARCHITECTS

Research and Development

THE Development Architect of John Laing and Son Limited has vacancies for **ASSISTANT ARCHITECTS** to work in the Construction Development Department at the Research and Development Centre at Boreham Wood.

The work of the Department includes Research into Building Systems, Techniques and Materials, and functions in association with related research departments concerned with Chemistry, Physics and Concrete Technology.

Applicants should be A.R.I.B.A. and should have a particular interest in research.

Apply in first instance to Personnel Manager, (RDA.13) John Laing and Son Limited, Page Street N.W.7. [6823]

### Borough of Lewes

#### ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment from suitably qualified persons. Salary Grade A.P.T. III (£880-£1,065).

Consideration will, if necessary, be given to the provision of housing accommodation.

Applications on forms obtainable from the Borough Engineer and Surveyor, Town Hall, Lewes, to be returned to him not later than noon on Monday, August 29, 1960.

R. A. R. GRAY,  
Town Clerk.

Town Hall,  
Lewes,  
Sussex.

[6845]

### Borough of Stourbridge

Borough Engineer's Department

#### SENIOR ASSISTANT ARCHITECT

APPLICATIONS are invited for the above post. Salary: A.P.T. Grade III to IV (£880-£1,065-£1,220) commencing according to qualifications and experience. Superannuable, subject to medical examination.

Living accommodation available if appropriate.

Applicants must be Associates of the Royal Institute of British Architects. Applications stating age, qualifications and experience, together with copies of three testimonials, to be sent to H. W. Morris, B.Sc.(Eng.), A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Council House, Stourbridge, not later than August 25, 1960.

A. P. DRURY,  
Town Clerk.

Council House,  
Stourbridge.  
July 27, 1960. [6825]

### Warwickshire County Council

Architect's Department

(a) **Deputy Group Architects** (two), Grade A.P.T. IV-V (£1,065-£1,375). Applications are invited from qualified and experienced architects for these posts, which are for the groups handling projects for the Council's education building programme.

In each case the post is one of responsibility requiring a high degree of initiative and design ability in up-to-date forms of construction, use of materials, control of costs, job planning and organization. The successful applicant will also be expected to deputise generally for the group architect.

(b) **Architects**, Special Grade (£785-£1,070).

Applications are invited from architects who have passed Parts I and II of the R.I.B.A. final or special examination or their equivalent at one of the recognized schools of architecture. The successful applicants will work in groups on large projects, and an opportunity will be given to men with enthusiasm and ability to design and carry out projects under a group architect.

(c) **Architectural Assistants**, Grade A.P.T. II (£765-£880).

Vacancies exist for assistants who are up to intermediate R.I.B.A. standard and who require experience in a variety of interesting projects.

The commencing salary can be within the grade according to ability and experience. Five-day week worked. The Council have schemes for the payment of removal expenses and a lodging allowance to married officers.

Application forms and full conditions applicable to the appointments can be obtained from Eric Davies, F.R.I.B.A., A.M.T.P.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,  
Clerk of the Council.

Shire Hall,  
Warwick.  
July, 1960. [6832]

## Official Announcements

### APPOINTMENTS (cont)

#### County Borough of East Ham

Borough Engineer's Department

APPLICATIONS are invited for the following temporary appointment:

**SENIOR ASSISTANT ARCHITECT,** Grade IV (£1,065-£1,220).

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than three years.

Further details and application forms returnable by August 26, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

[6859]

#### County Borough of East Ham

#### PRINCIPAL ASSISTANT PLANNING OFFICER

Grade A.P.T. IV (£1,065-£1,220)

VACANCY in the Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date August 26, 1960.

[6856]

#### County Borough of East Ham

**Senior Assistant Architect, A.P.T. III—** Salary £880-£1,065 plus London Weighting.

**Architectural Assistants, A.P.T. I—** Salary up to £805 per annum including London Weighting.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by August 26, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

[6860]

#### Burgh of Falkirk

#### DEPUTY BURGH ARCHITECT AND TOWN PLANNING OFFICER

APPLICATIONS are invited from persons who hold the qualifications A.R.I.B.A., and A.M.T.P.I., for the post of Deputy Burgh Architect and Town Planning Officer for the Burgh of Falkirk. Salary £1,116 13s 4d x £42 to £1,284 13s 4d per annum with placing according to qualifications and experience.

The appointment will be subject to the Town Council's Superannuation Scheme and Conditions of Service and the successful applicant will require to pass a medical examination.

Applications stating age, qualifications and experience along with copies of three recent testimonials should be lodged with the undersigned not later than August 24, 1960.

JOHN G. MORRIS.

Town Clerk.

Municipal Chambers,  
Falkirk, August 3, 1960.

[6864]

## COUNTY BOROUGH OF NEWPORT

The town is a rapidly expanding industrial and tourist centre within easy reach of fine country and seaside. The Authority has a large and varied programme of work which offers exceptional opportunities of gaining wide experience.

*Applications are invited from suitably qualified persons for the following established posts. For every appointment commencing salary may be at any point within the range shown—according to qualifications and experience:*

(I) 3 **ASSISTANT ARCHITECTS**

Special Grade/A.P.T. IV (£785-£1,220)

(II) 2 **ASSISTANT ARCHITECTS**

Special Grade (£785-£1,070)

(III) 1 **ARCHITECTURAL ASSISTANT**

Grade A.P.T. II (£765-£880)

(IV) 2 **ARCHITECTURAL ASSISTANTS**

Grade A.P.T. I (£610-£765)

(V) 1 **ASSISTANT QUANTITY SURVEYOR**

Grade A.P.T. IV (£1,065-£1,220)

(VI) 1 **ASSISTANT QUANTITY SURVEYOR**

Grade A.P.T. II (£765-£880)

(VII) 1 **BUILDING SURVEYOR/MAINTENANCE ASSISTANT**

Grade A.P.T. III (£880-£1,065)

(VIII) 1 **ASSISTANT HEATING ENGINEER**

Grade A.P.T. III (£880-£1,065)

Housing accommodation will be made available according to circumstances.

A five-day working week is in operation.

Application forms from Borough Architect, Civic Centre, Newport, Mon., returnable not later than 29th August, 1960.

#### Central Electricity Generating Board

Midlands Project Group

**Third Assistant Engineer (Civil)**

Structures and Buildings

**Fourth Assistant Engineer (Civil)**

Quantities

APPLICATIONS are invited for the above appointments in the Midlands Project Group at Bournville, Birmingham.

(a) **Third Assistant Engineer (Civil)—** Structures. Vacancy No. MPG.54/60.

Applicants should have experience in the design and construction of Power Stations or other industrial buildings and ancillary works, together with some experience in the writing of Specifications and in the preparation of Contract Documents.

The salary will be within Scale 13 (£1,090-£1,410 per annum) of the National Joint Board Agreement.

(b) **Third Assistant Engineer (Civil)—** Buildings. Vacancy No. MPG.55/60.

Applicants should have experience in the design and construction of Power Stations or industrial buildings, with particular reference to modern building construction and architectural details.

Experience in an architect's office and in the assessment of specifications will be an advantage.

The salary will be within Scale 13 (£1,090-£1,410 per annum) of the National Joint Board Agreement.

(c) **Fourth Assistant Engineer (Civil)—** Quantities. Vacancy No. MPG.56/60.

Applicants should be competent Quantity Surveyors with experience in estimating billing and measuring for Power Stations or other large industrial buildings and ancillary works—particular experience in site measurement will be an advantage.

The salary will be within Scale 10 (£850-£1,130 per annum) of the National Joint Board Agreement.

Applications for all appointments should preferably hold an appropriate qualification.

Applications should be made on standard form AE.6, available from the Administrative Officer, Midlands Project Group, P.O.Box 314, Birmingham 30, and should be returned to him not later than August 17, 1960.

Envelopes should be marked "Confidential" quoting the appropriate Staff Vacancy Number.

[6833]

#### City and County of Newcastle upon Tyne

City Architect's Department

CONSEQUENT upon revisions in the establishment of his Department the City Architect is now able to offer vacancies in the following senior posts in the Department and will be pleased to hear from Architects who are keen to take part in an exciting programme of high quality architectural work:

(a) One **Principal Assistant Architect** (General Section), J.N.C. Scale "C" (£1,385-£1,620 per annum).

(b) Two **Principal Assistant Architects** (Housing Section and Rehousing Section), J.N.C. Scale "B" (£1,255-£1,485 per annum).

Further details of the posts and Forms of Application may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne 1. Applicants must state the Section of the Department and post applied for when requesting particulars.

Closing date for completed applications, Saturday, September 3, 1960.

JOHN ATKINSON,

Town Clerk.

Town Hall,

Newcastle upon Tyne 1.

July 29, 1960.

[6840]

## Official Announcements

### APPOINTMENTS (cont)

#### The School of Architecture, Town Planning and Building

**Kumasi College of Technology, Ghana**  
APPLICATIONS are invited for the post of **SENIOR LECTURER IN BUILDING TECHNOLOGY**.

Applicants for the post should hold either Associateship of the Institute of Builders or Associateship of the Royal Institute of British Architects, and have had five years' professional experience and at least five years' teaching experience. The College prepares students for examinations qualifying at present for the Licenciatehip of the Institute of Builders, and ultimately for the Associateship. From 1961 onwards there may be some degree level teaching to Engineers reading for the External London B.Sc. examination. The applicant selected will be responsible to the Head of the School for the organization and running of the Building Technology section.

Contract appointments are normally for five years, and may be renewed. Three months' notice of resignation on an appointment is required on either side.

The contract salary scale for this post is £2,054 x £78-£2,522 per annum.

In addition children's allowances are paid up to a maximum of three, and a gratuity at the end of the contract at the rate of £150 for each year of satisfactory service. The entry point is fixed according to qualifications and experience.

The College is fully residential, and members of staff are housed in pleasant modern bungalows on the spacious campus; climate and living conditions are good. Annual leave with three free return passages in four years is granted to members of staff and their families.

Application forms and an Information Brochure may be obtained from the Assistant Registrar, Kumasi College of Technology, 29 Tavistock Square, London, W.C.1, who will also be glad to answer any questions about this appointment. The closing date for application is mid-August. [6853]

#### Lancashire County Council

**ARCHITECTURAL ASSISTANT** required at Preston, salary Special Scale (£785-£1,070).

Applicants should be qualified architects, planning experience is desirable but not essential. Duties include the design of housing layouts and central area redevelopment schemes, and the preparation of working drawings for houses, flats and shops.

Applications, giving age, qualifications, present appointment, experience, etc., and two referees, to the County Planning Officer, East Cliff County Offices, Preston, by August 22, 1960. [6837]

#### University of Cambridge ASSISTANT LECTURER IN ARCHITECTURE

APPLICATIONS are invited for the post of Assistant Lecturer in the School of Architecture from January 1, 1961. The duties will consist mainly of instruction in the studios.

Particulars may be obtained from the Secretary of the Appointments Committee of the Faculty of Fine Arts, 1 Scroope Terrace, Cambridge. Applications should be submitted by September 10, 1960. July 28, 1960. [6843]

#### Admiralty TEMPORARY ASSISTANT ARCHITECTS (Basic Grade)

**ASSISTANT ARCHITECTS** required in newly formed Architects' Branch of Navy Works Department of Admiralty at Headquarters (Pinner, Middlesex). Duties embrace design of sleeping, messing and recreation buildings for single officers and men, houses, flats and housing estates, instructional buildings, office blocks, hospitals and industrial buildings. Assistant Architects at Headquarters work under control of main grade and/or Senior Architects and expected to lead group of Architectural Assistants. Quals. A.R.I.B.A. Must be British subjects with first-class design ability and sound working knowledge of up-to-date forms of construction, materials and costs. Scope for development and application of new ideas in design of Naval buildings. Posts in basic grade with salaries starting from £830 per annum (London Rate) at age 25 to £1,125 per annum (London Rate) at age 34 or over. Maximum of London Scale is £1,300 p.a. Posts offered are non-pensionable with opportunities for establishment promotion to main grade (salary maximum £1,730 National Rate) and higher posts. Five-day week. Annual Leave allowance 22 days, rising to 25 days after 10 years' and 30 days after 20 years' service. Forms quoting reference J.275/OA from Ministry of Labour, Technical and Scientific Register (K), Almack House, 26 King Street, London, S.W.1. [6851]

#### Air Ministry Works

**DESIGN** branch requires in London and Provinces **ARCHITECTURAL ASSISTANTS** with adequate training and drawing office experience. O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognized courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave per year initially. Overseas tours for which special allowances granted.

Salary: in London ranges from £680 (age 25) to £900 p.a. for men; from £673 to £868 p.a. for women; somewhat lower in provinces. Commencing salary dependent on age, qualifications and experience.

Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.d., Lacon House, Theobalds Road, London, W.C.1, or apply to any employment exchange, quoting King's Cross 891, giving age, details of training and qualifications. Full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed. [60346]

#### County Borough of Bury

APPLICATIONS invited for permanent appointment of **SENIOR ASSISTANT ARCHITECT**, A.P.T. IV (£1,065-£1,220). Commencing salary according to qualifications and experience. Applicants should be experienced in dealing with contracts for large public works and should be professionally qualified.

Applications, stating age, details of training, qualifications, experience, present and previous appointments, together with names and addresses of two referees, must reach me by August 29, 1960.

EDWARD S. SMITH,  
Town Clerk.

Town Hall,

Bury.

July 30, 1960. [6844]

#### Borough of Warwick APPOINTMENT OF CHIEF ASSISTANT ARCHITECT

APPLICATIONS are invited from Qualified Architects for the above appointment within the Special Grade (£785-£1,070). Applications together with names and addresses of two persons to whom reference may be made must be delivered to my office not later than August 29, 1960.

Housing accommodation will be provided if necessary and removal expenses paid.

C. E. BROWN, A.M.I.Mun.E.,  
Borough Engineer and Surveyor.  
23 Jury Street,  
Warwick.

[6834]

#### Royal Burgh of Dumfries

Architect's Department  
APPLICATIONS are invited from qualified and experienced Architects for the post of **CHIEF ASSISTANT ARCHITECT**. Salary: Grade, £970-£1,075. The tenancy of a Town Council house will be offered to the successful applicant. Applications, stating age, experience, qualifications and present appointment, together with copies of two recent testimonials, to be lodged with the Burgh Architect, 32 George Street, Dumfries, on or before August 29, 1960.

GEORGE D. GRANT,  
Town Clerk.  
Municipal Chambers,  
Dumfries, July 30, 1960. [6836]

#### County Borough of East Ham ASSISTANT PLANNING OFFICER Grade A.P.T. I (£610-£765)

VACANCY in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

A subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.  
Closing date August 26, 1960. [6855]

#### Kent County Council

**ARCHITECTS** are required in the office of the County Architect to assist with the Council's expanding building programme which includes schools, colleges, residential homes and other public buildings. The salary range extends to £1,375 a year, the starting grade and salary depending on qualifications, ability and experience. Application forms and further details from the County Architect, Springfield, Maidstone. Closing date August 30, 1960. [6861]

#### Beeston and Stapleford Urban District Council TEMPORARY ARCHITECTURAL ASSISTANTS

£1,500 per annum will be paid to suitably qualified Architects required for work in connection with the design and planning of a Covered Swimming Bath comprising two Pools.

Candidates should have good design ability, with experience in contemporary design and detailing.

Applications stating age, qualifications and experience, together with particulars of present and previous appointments and names and addresses of two referees, must be received by the Housing Architect, Town Hall, Beeston, Nottingham, not later than August 29, 1960.

H. D. JEFFRIES,

Clerk.

[6854]

## Official Announcements

### APPOINTMENTS (cont.)

#### The County Council of the County of Wigton

APPLICATIONS are invited for the permanent appointments of **ASSISTANT ARCHITECTS** (2) in the County Architect's Department. Salary scale—£1,048 x £63(4) to £1,300. Applicants must be A.R.I.B.A., having some experience preferably in design and construction of schools. Housing accommodation may be provided. Medical examination. Superannuation. Applications, stating age, particulars of experience and qualifications and giving the names of two referees should be lodged with the undersigned within 14 days of the date of publication of this advertisement.

D. A. AITKEN,  
County Clerk.

County Offices,  
Stranraer.  
July 29, 1960. [6841]

#### Borough of Maidstone

- (a) **Chief Assistant Architect.** A.P.T. IV (£1,120-£1,220).
- (b) **Assistant Architect.** A.P.T. II-III (£765-£1,065).

The person appointed for (a) will be mainly responsible for housing and flat construction under the Principal Architect, and will have an Essential User's car allowance. Consideration will be given to the provision of Housing Accommodation if required.

The appointments will be subject to the Local Government Superannuation Acts and to the National Joint Council's Scheme of Conditions of Service. Application forms obtainable from the Borough Engineer, Palace Avenue, Maidstone, to whom they should be returned not later than August 23.

T. SCHOLES,  
Town Clerk.  
[6805]

#### TENDERS

##### Ross-on-Wye Urban District Council

**FIXED PRICE TENDERS** are invited for the ERECTION OF A BLOCK OF FOUR FLATS (TWO-STORY), TOGETHER WITH DRAINS, PATHS AND ALL ANCILLARY WORKS, at Brampton Avenue, Berryfield estate, Ross-on-Wye.

Applications for bills of quantities and form of tender, accompanied by a deposit cheque for £2 2s payable to Ross-on-Wye Urban District Council, must be made not later than August 16, 1960, to Edgar F. Young, A.R.I.C.S., Chartered Quantity Surveyor, 4 Imperial Square, Cheltenham. The deposit will be returned on receipt of a bona fide tender.

Bills of quantities, form of tender, and envelope for the return of tender will be issued on August 27, 1960, and tenders, enclosed in the envelope provided for the purpose must be delivered to the undersigned not later than 12 NOON ON SATURDAY, SEPTEMBER 17, 1960. The council does not bind itself to accept the lowest or any tender.

E. MOSES,  
Clerk of the Council.

Council Chambers,  
Ross-on-Wye,  
Herefordshire.  
[6866]

## ARCHITECTURAL APPOINTMENTS VACANT

**ARCHITECTURAL DRAUGHTSMAN** required for Shops and Interiors. Apply in writing only to: Staff Architect, Richard Henry Design Unit, Collingwood House, Mercers Rd, London, N.19. [6863]

**PATRICK GWINNE** requires senior assistant to work on important private houses and interiors. The Homewood, Esher, Surrey. Esher 3310. [6803]

**BRIAN PEAKE** requires Junior Staff interested in gaining experience by running small contracts. Tel.: GRO 7888. [6830]

**BASIL SPENCE & PARTNERS** require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 48 Queen Anne Street, W.1, stating experience and salary required. [0740]

**DEVEREUX & DAVIES** require capable and enthusiastic assistant architects, salary £1,000 per annum or according to experience and ability.—Devereux & Davies, 3 Gower Street, Bedford Square, London, W.C.1. [0660]

**ARCHITECTURAL ASSISTANT**, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

**WEST END OFFICE** requires Assistant Architects of Final and Intermediate Standards for interesting industrial projects in Home Counties. Good salaries offered to men with initiative and ability. Bonus scheme, five-day week, holiday arrangements honoured. Box 0627. [0380]

**SENIOR ARCHITECT** required to fill responsible executive position in Manchester office of Scherrer and Hicks.

Write to 60 Spring Gardens, Manchester 2, stating salary required and experience. [6799]

**SCHERRER AND HICKS** require assistants of R.I.B.A. Final and Intermediate standard preferably with two or three years' experience. Please write to 19 Cavendish Square, W.1. [6793]

**ARCHITECTURAL ASSISTANT** required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. [0916]

**THE TILLING ASSOCIATION LIMITED** has vacancies for both qualified and unqualified Architects with design and construction ability and administrative experience. The work includes large and small scale commercial and industrial development. Luncheon facilities. Starting salaries within the range of £800-£1,200 p.a. according to qualifications and experience. Apply, preferably in writing, or by telephone, to Alan A. Briggs, F.R.I.B.A., 10 Fleet Street, London, E.C.4. Telephone No. City 4400. [6812]

**YOUNG LONDON OFFICE** of Grenfell Baines & Hargreaves wants architects for a variety of jobs and competitions: Contact David Rock, 4 Cavendish Place, London, W.1. Tel: LANGham 2621. [6857]

**WESTON-SUPER-MARE**. Architectural Assistant. Inter/Final Standard, required for varied work. Details and Salary required, to N. H. N. Darby & Partners, 1 The Centre, Weston-super-Mare. [6858]

**ASSISTANTS** urgently required, intermediate to final standard. Interesting and varied work with opportunities for site supervision. Salary from £600 plus L.V.G. Gordon Stanham, Adamson, Gray & Partners, 9/10 Fenchurch Street, London, E.C.3. MANSion House 1010 or 5274. [0350]

**POOLE, DORSET**—Architectural Assistants required, salaries £600 to £1,000. W. Leslie Jones & Partners, 24a, High Street. [6846]

**ARCHITECT'S ASSISTANTS** required in Birmingham Office for preparation of working drawings, specifications, etc. Ability to drive a car an asset. Salary by arrangement. Five-day week. Existing holiday arrangements honoured. Telephone: Birmingham Central 6139 or write Box No. 1218. [6862]

**ARCHITECTURAL ASSISTANT**, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079]

**ARCHITECT** requires Chief or Senior Assistant, for interesting work including shops, offices and schools. Apply in writing stating age, experience and salary required to Roff Marsh, F.R.I.B.A., M.T.P.I., 125/7 London Road, Chelmsford. [6865]

**ARCHITECTURAL ASSISTANTS AND JUNIOR DRAUGHTSMEN** urgently required for architect's department of Dolcis Ltd. Interesting work, five-day week, pension scheme. Write stating age, experience and salary required to Ellis E. Somake, F.R.I.B.A., Chief Architect, Dolcis Ltd, 7/13 Great Dover Street, S.E.1. [0349]

**ASSISTANTS** at all levels required by Knapton & Deane in their Westminster office. Good salaries, interesting work and promotion on merit. Telephone: MAN 6281. [6838]

**TWO INTER. STANDARD ASSISTANTS** required. Salary £750. Particulars to Wilburn & Son, 11 South Parade, Doncaster. [6842]

**WANTED ARCHITECTURAL ASSISTANT**. Inter-standard. Facilities for part-time schooling. Private practice. Stockport, Cheshire. Please apply stating age, experience and salary required. Box 1193. [6848]

**WILLIAM RYDER** requires keen assistant of post-intermediate standard to work on multi-storey flats, or shop and office developments. Five-day week. Apply in writing to 21 Bruton Street, Berkeley Square, W.1. [6835]

**JUNIOR ARCHITECTURAL ASSISTANTS** required in Stratford-on-Avon and Evesham offices of Earp, Badger & Harrison, A./A.R.I.B.A. Apply stating age and salary required to Guild Chambers, Scholars Lane, Stratford-on-Avon. [6847]

#### NO CARROTS FOR DONKEYS

But varied and interesting work for **WILLING HORSES**

and a salary commensurate with the weight you can pull. Active office appreciative of progressive design and initiative.

David Stern and Partners, 24 Gloucester Place, W.1. HUNter 0451. [6850]

**ARCHITECTURAL ASSISTANT** required, able to work on own initiative, varied practice, small office, opportunity for advancement. Write or phone, Nicholson & Rushton, 2 New Square, Lincoln's Inn, W.C.2. HOLborn 2095. [0980]

#### BOOKS

**PRODUCTION ENGINEERING**: Practical Methods of Production Planning and Control. By J. S. Murphy, A.I.I.A. This special book deals with factory organization, each separate item or function being discussed in the order in which it arises in practice. The book provides experienced production engineers with an opportunity to compare different methods. Price 12s 6d net from all booksellers. By post 13s 5d from The Publishing Department, Dorset House, Stamford Street, London, S.E.1.

# Miscellaneous Announcements

Rate • 1/9d per line minimum 3/6d, average line 6 words. Each paragraph charged separately.

Situations wanted • advertisements are accepted at the specially reduced rate of 6d per line minimum 1/6d  
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## INDEX TO ADVERTISERS

Official Notices, Tenders, Auctions, Legal and Miscellaneous Appointments on pages 56 to 60

Adamite Co. Ltd., The	15	Cozens Ventilators Ltd.	49	Ideal Boilers & Radiators Ltd.	32	Pochins (Manchester) Ltd.	46
Aerialite Ltd.	53	Crapper, T., & Co. Ltd.	47	Imperial Chemical Industries Ltd.	25	Precast Utilities (London) Ltd.	34
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Anderston Clyde Engineers Ltd.	55	Decorations Enterprise Ltd.	49	Knight, L. J., Ltd.	48	Sandline Brick Manufacturers' Assoc. Ltd., The	26
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